DSL Modem

Model #: GT701R

User Manual

Ver 1.0

Solutions for the Digital Life™

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Introduction 1

Thank you for purchasing the *Action*tec 54 Mbps DSL Modem. The Modem is the simplest way to connect computers to a high-speed broadband connection. This easy-to-use product is perfect for the office or small business. If you want to take your computing to the next level, the *Action*tec 54 Mbps DSL Modem is sure to be one of the keys to your success.

Package Contents

- *Action*tec 54 Mbps DSL Modem
- Power adapter
- Phone filters
- DSL cable
- Ethernet cable
- USB cable
- Installation CD-ROM
- Quick start guides

Minimum System Requirements

- Active DSL service
- Computer with an 10 Mbps or 10/100 Mbps Ethernet connection, or USB connection

- Microsoft Windows 98 Second Edition (SE), Windows Millennium Edition (Me), Windows NT 4.0, Windows 2000, Windows XP, Mac OS 7.1+, Mac OS 8.0+, Mac OS 9.0+, or Mac OS X+

☞ ***Note***: USB LAN port is not supported with Microsoft Windows 95, Windows NT 4.0, and Mac OS.

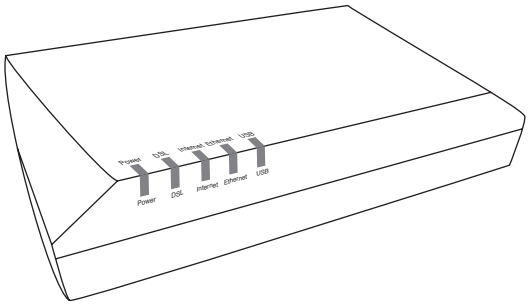
- Internet Explorer 5.0 or higher (6.x recommended) or Netscape Navigator 4.0 or higher (4.7 recommended)
- TCP/IP network protocol installed on each computer

Features

This section contains a quick description of the Modem's lights, ports, etc. The Modem has several indicator lights (LEDs) on its front panel and a series of ports on its rear panel.

Front Panel

The front panel of the Modem features five lights: Power, DSL, Internet, Ethernet, USB, and Wireless.



Power Light

The Power Light displays the Modem's current status. If the Power Light glows steadily green, the Modem is receiving power and fully operational. When the Power Light is rapidly flashing, the Modem is initializing. If the Power Light is not illuminated when the power cord is plugged in, the Modem has suffered a critical error and technical support should be contacted.

DSL Light

The DSL light illuminates when the Modem is connected to a DSL line.

Internet Light

When the Internet Light glows steadily, the Modem is connected to the DSL provider. When it flashes, the Modem's built-in DSL modem is training for DSL service.

Ethernet Light

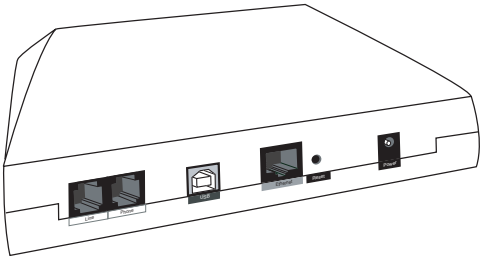
The Ethernet light illuminates when the Modem is connected via its Ethernet Port.

USB Light

The USB light illuminates when the Modem is connected via its USB port.

Rear Panel

The rear panel of the Modem contains five ports (Line, Phone, USB, Ethernet, and Power), as well as a Reset switch.



Line Port

Used to connect the Modem to a DSL (Digital Subscriber Line) connection.

Phone Port

Used to connect a telephone to the Modem.

USB Port

Used to connect a computer to the Modem via USB cable.

Ethernet Port

Used to connect computers to the Modem via Ethernet cable. The Ethernet port is a 10/100 Mbps auto-sensing port, and either a straight-through or crossover Ethernet cable can be used when connecting to the port.

Reset Switch

Depressing the reset switch for one or two seconds will power cycle (similar to unplugging and then plugging in the Modem's power cord) the Modem. To restore the Modem's factory default settings, depress and hold the Reset Switch for approximately 10 seconds. The reset process will start about 10 seconds after releasing the Reset Switch.

Power Port

Used to connect the Power Cord to the Modem.

Warning: Do not unplug the power cord from the Modem during the reset process. Doing so may result in permanent damage to the Modem.

Technical Support

Self Help

To obtain answers to DSL configuration questions, visit the Qwest DSL *Action*tec support page at this address:
`http://www.qwest.com/dsl/customerservice/Actiontecgt701-wg.html`

A help page is also available on the main page of the *Action*tec DSL Modem Web interface. Enter

`192.168.0.1`

in the browser's address text box, and when the first screen appears, click **HELP**.

Basic Setup Support

If unable to access the Internet, look at the Internet light on the front of the DSL Modem. If the light is **solid green**, call the ISP immediately. If it is **not solid green**, call Qwest at 1-800-247-7285.

Other Problems

Contact the ISP if experiencing problems with:

- DHCP addressing configuration
- Static IP addressing configuration
- Transparent bridging configuration

Contact Qwest at 1-800-247-7285 for:

- DSL service outage support and repair

- DSL service installation support

☞ ***Note***: Before attempting any of the above, make sure access to the Internet is available.

Advanced Feature Support

Qwest DSL technical support provides the following advanced feature support for the *Action*tec DSL Gateway. Contact Qwest at 1-800-247-7285 for configuration assistance.

- Enabling Website Blocking
- Enabling VPN Pass-Through
- Enabling/Disabling NAT
- Firewall configuration
- Changing the LAN IP address of the DSL Gateway
- Enabling Services Blocking
- Enabling/Disabling DHCP
- VIP feature

These features are supported in the Modem only. Implementation of the above features within the network (LAN) is not supported.

Wired/Wireless Upgrade

Wired and wireless upgrade installation support is available from *Action*tec free of charge if the wired/wireless equipment was purchased from *Action*tec. Contact *Action*tec at 1-888-436-0675 for installation and configuration support information.

Networking (LAN) Support

If a wired/wireless network has been set up and support is needed in one of the following areas:

- LAN support of multiple computers and peripherals;
- Microsoft Windows Networking;

- Microsoft Internet Connection Sharing (ICS);
- Advanced LAN configuration with multiple computers;
- Non-*Action*tec-provided network card/Ethernet cable installation, configuration, or troubleshooting;
- Commercial firewall software configuration;

contact the ***Action*tec Pay For Support Center** at 1-888-825-9025. *Action*tec networking support is provided for a fee of $29.95 per incident. Other fee-based feature support includes:

- Port Forwarding (Static NAT)
- Static Routing
- MAC Address Cloning
- Third-party vendor wireless equipment configuration
- DMZ Hosting
- NAT Routes
- RIP (Dynamic Routing)

This support service does not include an on-site field technician.

To purchase *Action*tec wireless cards and peripherals, visit the *Action*tec Web site at

www.actiontecstore.com/qwest

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Setting Up the Modem

2

The instructions that follow parallel the steps contained in the Installation Guide, which provides a visual guide to setting up the Modem. It is recommended the user run the Installation Guide first, before attempting any other procedures.

To set up the Modem, it must be connected to a computer, and then configured. After connecting this first computer, other computers can be added to the network via Ethernet or USB (see "Setting Up a Network" on page 89).

Attention!

Read the following two sections (Alarm System, Automatic Water Heater) before proceeding with any installation!

Alarm System

If your home or business has an alarm system, and if Qwest DSL shares the same phone line, you have special wiring needs. If you did not order a technician install at the time of sale, please contact your Security Alarm Provider or Qwest Sales as soon as possible to order and schedule your installation.
If your security alarm system is wired incorrectly, it may not be able to make a notification call when the alarm is triggered.
Professional wiring is required to ensure inter-operability. **Do not attempt the installation yourself!**
Qwest strongly recommends contacting your security organization for more information about your security alarm system before attempting to install Qwest DSL. Qwest also strongly recommends contacting your security organization after installing Qwest DSL to have them conduct a test of your alarm system.

Automatic Water Meter

Although most water companies do not utilize automatic water meters, some do. If you have an automatic water meter using the same phone line as your Qwest DSL service, you must install a DSL Phone Filter.
Contact your water company for help installing the DSL Phone Filter on your water meter, or if you are unsure whether your water meter uses your phone line.

Connecting a Computer to the Modem

Connecting a computer to the Modem for setup involves three basic steps: initial setup, plugging in the Modem's power cord, and connecting the Modem to the computer.

☞ ***Note***: The following procedures are for U.S. installations only.

Connecting Via Ethernet

1. Insert the Installation CD in the CD-ROM drive of the computer. The Installation Guide will start automatically. Wait until the following screen appears, read the on-screen instructions, select **English**, then click **Next**.

Qwest
Installation Guide
Welcome to Qwest DSL.
To begin the installation of your Qwest DSL service select "English" below and click the NEXT button.
Bienvenido a Qwest DSL.
Para comenzar la instalación de su servicio de Qwest DSL seleccione abajo "Español" y luego haga clic al botón NEXT.
Select your language / Seleccion su idioma:
English
Español
Next >
Help
Cancel

2. Read the instructions concerning firewall and anti-virus software, then click **Next**.

Qwest
Installation Guide
Before installing Qwest DSL service please disable all firewall and/or anti-virus software you may have running at this time. Also, close all other programs running on your computer before continuing.
The Installation Guide will be your step-by-step guide during the following installation activities:
1. Installing your DSL Modem
2. Installing Phone Filters
3. Configuring your DSL Modem for your (ISP)
< Back
Next >
Help
Cancel

3. Read the instructions, select **Initial Setup** by clicking on the appropriate radio button, then click **Next**.

Qwest
Installation Guide
If you have just received your DSL Modem and are installing it for the FIRST TIME, click the box next to "Initial Setup".
Or
If you are connecting an additional computer to the DSL Modem at this time, click the box next to "Adding Computers".
Once you have made your selection, click NEXT to continue.
Please select from the following options:
Initial Setup
Adding Computers
< Back
Next >
Help
Cancel

4. Read the instructions regarding the service activation date, then click **Next**.

Qwest
Installation Guide
Please do not install your DSL Modem prior to the Service Activation Date. The Service Activation date may be found on your Welcome Letter (ISP Worksheet).
If you have not received your ISP Welcome Letter by the Service Activation Date, please contact your ISP directly.
Click NEXT to continue.
< Back
Next >
Help
Cancel

5. Select the appropriate modem payment option, then click **Next**.

Qwest
Installation Guide
Qwest DSL provides the ability to purchase or rent modems depending on your specific needs. Select the modem payment option that you chose when ordering Qwest DSL service.
I rented my modem from Qwest.
I purchased my modem from Qwest.
I do not recall my selected payment option.
Back
Next
Help
Cancel

6. Read the on-screen instructions regarding the terms and agreements of the rental or purchase contract, click in the white circle next to **I accept this agreement**, then click **Next**.

Qwest
Installation Guide
Note: A printed copy of this agreement is included in the white bag in your DSL Installation Kit.
MODEM RENTAL AGREEMENT / LIMITED WARRANTY:
Thank you for purchasing Qwest DSL service. Please carefully read the following terms and conditions that apply to your Modem rental, and your use of the modem. If you do not recall, your bill will state whether you elected to rent or purchase the modem.
By installing the modem ("Modem"), you affirm that (a) you understand this Agreement between you and Qwest Enterprise America, Inc. ("Qwest") and (b) you accept this Agreement and its terms and conditions, even if you do not read it. If you do not agree to all of the terms and conditions of this Agreement, you must return the Modem to Qwest by following the return process described on the Return Policy & Procedure card included in this box (black and white card).
I Agree
I do not Agree
Back
Next
Help
Cancel

7. Click the check box next to **Ethernet** (**Recommended**), then click **Next**.

Qwest
Installation Guide
Please select a connection type for your DSL Modem below. Ethernet is the Qwest preferred method of connection.
The ETHERNET PORT looks similar to a regular phone port but is slightly larger.
The USB PORT is shaped like a thin rectangle about 1/2 inch by 1/4 inch and may be horizontal or vertical.
Click NEXT to continue after the connection type has been selected below.
Ethernet Port
USB Port
Please select the PC connection type below:
Ethernet (Recommended)
USB
Back
Next
Help
Cancel

8. Read the on-screen information concerning home security alarms, then click **Next**.

Qwest
Installation Guide
Security Alarm
If your home or business has an alarm system and if Qwest DSL will share the same phone line, you have special wiring needs. If you did not order a technician install at the time of sale, please contact your Security Alarm Provider or Qwest Sales as soon as possible to order and schedule your installation.
If your security alarm system is wired incorrectly, it may not be able to make a notification call when the alarm is triggered.
Professional wiring is required to
Security Alarm
Back
Next
Help
Cancel

9. Make sure the items needed to connect the Modem to the first computer on included in the kit, then click **Next**.

10. Get the **Modem** from the kit, then click **Next**.

11. Get the **Power cord** from the black bag and plug the smaller end into the **black Power port** on the rear panel of the Modem, then click **Next**.

Qwest
Installation Guide
STEP 2
Get the BLACK bag and remove the Power Cord from the bag.
STEP 3
Plug the smaller end of the Power Cord into the Black Port located on the back of the DSL Modem provided in the DSL Installation Kit.
Click NEXT to continue.
Black Port
Power Cord
Power Cord
< Back
Next >
Help
Cancel

12. Plug the larger end of the **Power cord** into a **power outlet**, then click **Next**.

13. Confirm the **Power light** on the front of the Modem **glows solid green**, then click **Next**.

Qwest
Installation Guide
STEP 5
Confirm that the Power light on the DSL Modem is Solid GREEN. This may take a few moments.
NOTE: The DSL light may be blinking GREEN.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

14. Get the **yellow Ethernet cable** from the kit and plug one end into a **Yellow port** on the back of the Modem, then click **Next**.

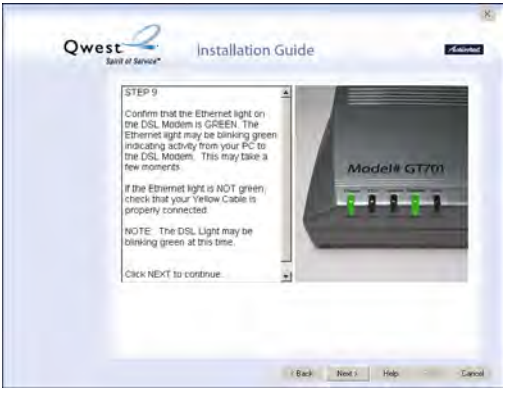
Qwest
Installation Guide
STEP 6
Get the Yellow Cable from your DSL installation kit.
STEP 7
Connect one end of the Yellow Cable into the Yellow Port, labeled Ethernet, on the back of your DSL Modem.
Click NEXT to continue.
Yellow Port
Yellow Cable
Yellow Cable
< Back
Next >
Help
Cancel

15. Plug the other end of the **yellow Ethernet cable** into an **Ethernet port** on the back of the computer. Click **Next**.

Qwest
Installation Guide
STEP 8
Plug the other end of the Yellow Cable into the Ethernet Port located on the back of your computer.
NOTE: The Ethernet Port looks similar to a regular Phone Jack but is slightly larger.
Click NEXT to continue.
Ethernet Port
Computer
Your computer may look slightly different
< Back
Next >
Help
Cancel

☞ ***Note***: An Ethernet port looks similar to a phone jack, but is slightly larger.

16. Make sure the **Ethernet Network light** on the front of the Modem **glows solid green**. Click **Next**.


Qwest
Installation Guide
STEP 9
Confirm that the Ethernet light on the DSL Modem is GREEN. The Ethernet light may be blinking green indicating activity from your PC to the DSL Modem. This may take a few moments.
If the Ethernet light is NOT green, check that your Yellow Cable is properly connected.
NOTE: The DSL Light may be blinking green at this time.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

17. Get the **green cable** from the kit and plug one end into the **green Line port** on the rear panel of the Modem. Click **Next**.

Qwest
Installation Guide
STEP 10
Get the Green Cable out of the Black Bag.
STEP 11
Plug one end of the Green Cable into the GREEN Port, labeled "Line", which is located on the back of the DSL Modem.
Click NEXT to continue.
Green Port
Green Cable
Green Cable
< Back
Next >
Help
Cancel

18. Plug the other end of the **green cable** into the **phone jack** closest to the computer. Click **Next**.

The Modem is connected to a computer via Ethernet. Next, install the filters as described in "Installing Filters" on page 28.

Connecting Via USB

1. Insert the Installation CD in the CD-ROM drive of the computer. The Installation Guide will start automatically. Wait until the following screen appears, read the on-screen instructions, select **English**, then click **Next**.

Qwest
Installation Guide
Welcome to Qwest DSL.
To begin the installation of your Qwest DSL service select "English" below and click the NEXT button.
Bienvenido a Qwest DSL.
Para comenzar la instalación de su servicio de Qwest DSL seleccione abajo "Español" y luego haga clic al botón NEXT.
Select your language / Seleccion su idioma
English
Español
Next >
Help
Cancel

2. Read the instructions concerning firewall and anti-virus software, then click **Next**.

Qwest
Installation Guide
Before installing Qwest DSL service please disable all firewall and/or anti-virus software you may have running at this time. Also, close all other programs running on your computer before continuing.
The Installation Guide will be your step-by-step guide during the following installation activities:
1. Installing your DSL Modem
2. Installing Phone Filters
3. Configuring your DSL Modem for your (ISP)
< Back
Next >
Help
Cancel

3. Read the instructions, select **Initial Setup** by clicking on the appropriate radio button, then click **Next**.

Qwest
Installation Guide
If you have just received your DSL Modem and are installing it for the FIRST TIME, click the box next to "Initial Setup".
Or
If you are connecting an additional computer to the DSL Modem at this time, click the box next to "Adding Computers".
Once you have made your selection, click NEXT to continue.
Please select from the following options:
Initial Setup
Adding Computers
< Back
Next >
Help
Cancel

4. Read the instructions regarding the service activation date, then click **Next**.

Qwest
Installation Guide
Please do not install your DSL Modem prior to the Service Activation Date. The Service Activation date may be found on your Welcome Letter (ISP Worksheet).
If you have not received your ISP Welcome Letter by the Service Activation Date, please contact your ISP directly.
Click NEXT to continue.
< Back
Next >
Help
Cancel

5. Select the appropriate modem payment option, then click **Next**.

Qwest
Installation Guide
Qwest DSL provides the ability to purchase or rent modems depending on your specific needs. Select the modem payment option that you chose when ordering Qwest DSL service.
I rented my modem from Qwest.
I purchased my modem from Qwest.
I do not recall my selected payment option.

6. Read the on-screen instructions regarding the terms and agreements of the rental or purchase contract, click in the white circle next to **I accept this agreement**, then click **Next**.

Qwest
Installation Guide
Note: A printed copy of this agreement is included in the white bag in your DSL Installation Kit.
MODEM RENTAL AGREEMENT / LIMITED WARRANTY:
Thank you for purchasing Qwest DSL service. Please carefully read the following terms and conditions that apply to your Modem rental, and your use of the modem. If you do not recall, your bill will state whether you elected to rent or purchase the modem.
By installing the modem ("Modem"), you affirm that (a) you understand this Agreement between you and Qwest Enterprise America, Inc. ("Qwest") and (b) you accept this Agreement and its terms and conditions, even if you do not read it. If you do not agree to all of the terms and conditions of this Agreement, you must return the Modem to Qwest by following the return process described on the Return Policy & Procedure card included in this box (black and white card).
I Agree
I do not Agree

7. Click the check box next to **USB**, then click **Next**.

Qwest
Installation Guide
Please select a connection type for your DSL Modem below. Ethernet is the Qwest preferred method of connection.
The ETHERNET PORT looks similar to a regular phone port but is slightly larger.
The USB PORT is shaped like a thin rectangle about 1/2 inch by 1/4 inch and may be horizontal or vertical.
Click NEXT to continue after the connection type has been selected below.
Ethernet Port
USB Port
Please select the PC connection type below:
Ethernet (Recommended)
USB
Back
Next
Help
Cancel

8. Read the on-screen information concerning home security alarms, then click **Next**.

Qwest
Installation Guide
Security Alarm
If your home or business has an alarm system and if Qwest DSL will share the same phone line, you have special wiring needs. If you did not order a technician install at the time of sale, please contact your Security Alarm Provider or Qwest Sales as soon as possible to order and schedule your installation.
If your security alarm system is wired incorrectly, it may not be able to make a notification call when the alarm is triggered.
Professional wiring is required to
Security Alarm
Back
Next
Help
Cancel

9. Make sure the items needed to connect the Modem to the first computer on included in the kit, then click **Next**.

10. Get the **Modem** from the kit, then click **Next**.

Qwest
Spirit of Service
Installation Guide
Lets get started with your DSL installation!
STEP 1
Get the DSL Modem from your DSL installation kit and take it out of the bag.
Click NEXT to continue.
< Back
Next >
Help
Cancel

11. Get the **Power cord** from the black bag and plug the smaller end into the **black Power port** on the rear panel of the Modem, then click **Next**.

Qwest
Installation Guide
STEP 2
Get the BLACK bag and remove the Power Cord from the bag.
STEP 3
Plug the smaller end of the Power Cord into the Black Port located on the back of the DSL Modem provided in the DSL Installation Kit.
Click NEXT to continue.
Black Port
Power Cord
Power Cord
< Back
Next >
Help
Cancel

12. Plug the larger end of the **Power cord** into a **power outlet**, then click **Next**.

13. Confirm the **Power light** on the front of the Modem **glows solid green**, then click **Next**.

Qwest
Installation Guide
STEP 5
Confirm that the Power light on the DSL Modem is Solid GREEN. This may take a few moments.
NOTE: The DSL light may be blinking GREEN.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

14. Get the **purple USB cable** from the kit and plug large, square end into the **purple USB port** on the back of the Modem, then click **Next**.

Qwest
Installation Guide
STEP 6
Get the Purple Cable from your DSL installation kit.
STEP 7
Connect the square end of the Purple Cable into the Purple Port, labeled USB, on the back of your DSL Modem.
Click NEXT to continue.
Purple Port
Purple Cable
Purple Cable
< Back
Next >
Help
Cancel

15. Plug the flat, rectangular end of the **purple USB cable** into a **USB port** on the front or back of the computer. Click **Next**.

Qwest
Installation Guide
STEP 8
Plug the thin, rectangular end of the Purple Cable into the USB Port located on the back of your computer. You may see several screens pop up while the computer configures your new DSL Modem for use.
NOTE: The USB Port is shaped like a thin rectangle about 1/2 inch by 1/4 inch and may be horizontal or vertical.
Click NEXT to continue.
Computer
USB Port
Purple Cable
Computer
Your Computer may look slightly different
< Back
Next >
Help
Cancel

16. Make sure the **USB light** on the front of the Modem **glows solid green**. Click **Next**.

Qwest
Installation Guide
Step 9: Confirm that the USB light on the DSL Modem is GREEN. The USB light may be blinking green indicating activity from your PC to the DSL Modem. This may take a few moments.
If the USB light is NOT green, check that your Purple Cable is properly connected.
NOTE: The DSL Light may be blinking green at this time.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

17. Get the **green cable** from the kit and plug one end into the **green Line port** on the rear panel of the Modem. Click **Next**.

Qwest
Spirit of Service
Installation Guide
STEP 10
Get the Green Cable out of the Black Bag.
STEP 11
Plug one end of the Green Cable into the GREEN Port, labeled "Line", which is located on the back of the DSL Modem.
Click NEXT to continue.
Green Port
Green Cable
Green Cable
< Back
Next >
Help
Cancel

18. Plug the other end of the **green cable** into the **phone jack** closest to the computer. Click **Next**.

The Modem is connected to a computer via USB. Next, install the filters as described in "Installing Filters" on page 28.

Installing Phone Filters

Phone filters allow the use of the telephone while online. All telephones and other devices (answering machines, fax machines, etc.) using the same phone line (i.e., using the same phone number) as the DSL line must have a phone filter installed. To install a filter, follow these instructions:

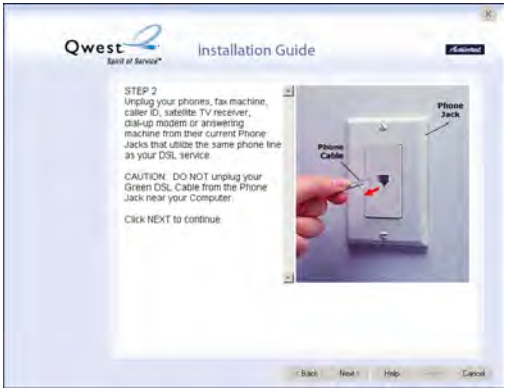
1. Read the on-screen information, get the **Clear Bag**, then click **Next**.

Qwest
Installation Guide
Connecting the Phone Filters
What are Phone Filters? Phone Filters separate the DSL Signal from your voice signal so that you can talk on the Phone and be online at the same time.
ALL PHONES with the same number as your DSL Line will require Phone Filters. This includes phones, fax machines, caller IDs, satellite TV receivers and answering machines. Without these filters you will hear static while you talk on the phone.
Click NEXT to continue.
Phone Filters
< Back
Next >
Help
Cancel

2. Remove the phone filters from the **Clear Bag**. Click **Next**.

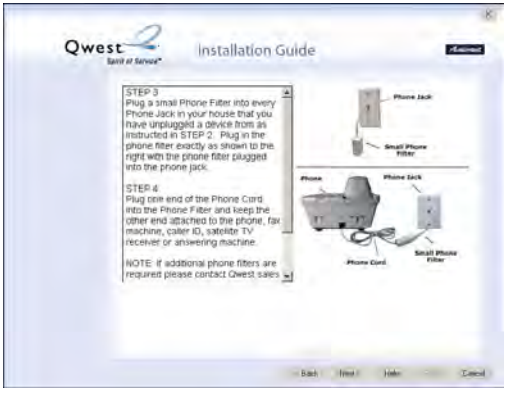
Qwest
Installation Guide
STEP 1
Open the CLEAR bag and take out the Phone Filters.
The wall-mount filter will ONLY be used if you have a phone mounted on the wall.
NOTE: The number and type of Phone Filters included in this kit may vary.
You may also refer to the Blue Start Here for instructions on connecting the Phone Filters in different locations.
Click NEXT to continue.
Small Phone Filters
Wall-Mount Filter
< Back
Next >
Help
Cancel

3. Read the on-screen information, then unplug all telephones and other devices from their phone jacks. Click **Next**.


Qwest
Installation Guide
STEP 2
Unplug your phones, fax machine, caller ID, satellite TV receiver, dial-up modem or answering machine from their current Phone Jacks that utilize the same phone line as your DSL service.
CAUTION: DO NOT unplug your Green DSL Cable from the Phone Jack near your Computer.
Click NEXT to continue.
Phone Jack
Phone Cable

Caution: **Do not** unplug the green DSL cable from the phone jack near your computer.

4. Plug a phone filter into every phone jack with a telephone or other device connected to it, then plug the ends of the phone lines disconnected in step 3 into the phone filters plugged into wall jacks. Click **Next**.


Qwest
Installation Guide
STEP 3
Plug a small Phone Filter into every Phone Jack in your house that you have unplugged a device from as instructed in STEP 2. Plug in the phone filter exactly as shown to the right with the phone filter plugged into the phone jack.
STEP 4
Plug one end of the Phone Cord into the Phone Filter and keep the other end attached to the phone, fax machine, caller ID, satellite TV receiver or answering machine.
NOTE: If additional phone filters are required please contact Qwest sales
Phone Jack
Small Phone Filter
Phone
Phone Jack
Phone Cord
Small Phone Filter

Caution: **Do not** plug a phone filter in the phone jack in which the green DSL cable is plugged.

5. If using a wall-mount phone, read the on-screen instructions, then click **Next**. If not installing a wall-mount phone filter, go step 7.

Qwest
Installation Guide
If you have a phone mounted on the wall, you will need to use the Wall-Mount Phone Filter.
For all other phones, fax machines, caller IDs, satellite TV receivers or answering machines you will need to use the small Phone Filters.
Click NEXT to continue with step 5 and install your wall mount filter. If a wall-mount filter is not required, skip step 5 and continue with the installation
Wall Mount Phone
Back
Next
Help
Cancel

6. Install a wall-mount phone filter by removing the wall-mount telephone and opening the top and bottom toggles. Then, push the wall-mount filter onto the wall jack, push the toggles back into the closed position, and remount the wall-mount telephone. Click **Next**.

Qwest
Installation Guide
Installing the wall-mount filter
STEP 5
Remove the telephone from the wall jack. Open the top and bottom toggles until they snap into the open position. Push the wall-mount filter onto the wall jack. Push the toggles back into the closed position. Reattach the telephone to the wall-mount filter.
Click NEXT to continue
Back
Next
Help
Cancel

7. Plug the phone cord into the **Phone Jack** on the back of the Modem. The connections should look like the configuration in the picture, below (if the first computer is connected via Ethernet; if the first computer is connected via USB, the purple cable will be plugged into the purple port). Click **Next.**
Ethernet:

Qwest
Installation Guide
If you want to have a phone next to your computer, follow the instructions below; otherwise, click NEXT.
Step 6
You can talk on the Phone and surf the Internet at the same time. All you need to do is plug your Phone directly into the Modem. So get the loose end of the phone cord and plug it into the Phone Port on the back of the DSL Modem.
Make sure that you have connected your Phone to the DSL Modem EXACTLY as shown in this picture.
Phone
DSL Modem
Phone Cord
Power Cord
Green Cable
Yellow Cable
Back
Next
Help
Cancel

USB:

Qwest
Installation Guide
If you want to have a phone next to your computer, follow the instructions below; otherwise, click NEXT.
Step 6
You can talk on the Phone and surf the Internet at the same time. All you need to do is plug your Phone directly into the Modem. So get the loose end of the phone cord and plug it into the Phone Port on the back of the DSL Modem.
Make sure that you have connected your Phone to the DSL Modem EXACTLY as shown in this picture.
Phone
DSL Modem
Phone Cord
Power Cord
Green Cable
Purple Cable
Back
Next
Help
Cancel

8. Make sure a phone filter is **NOT** connected to the green DSL cable, and that the green DSL cable is connected as shown on-screen.

Qwest
Installation Guide
FILTER CHECK
Make sure you have NOT connected a Phone Filter to the Green DSL Cable. Also, make sure that the green DSL cable is connected to the Modem and the Phone Jack on the wall as shown.
Click NEXT to continue.
Green Cable
< Back
Next >
Help
Cancel

9. Make sure the appropriate **lights** on the front of the Modem **glows solid green**. Click **Next**.
Ethernet:

Qwest
Installation Guide
MODEM STATUS CHECK
Ensure the Power, DSL and Ethernet lights are solid GREEN. If they are not, check each cable to ensure all cables have been securely connected. The Ethernet light may be blinking.
NOTE: The Internet light will be OFF or red at this time.
If you need further assistance, please contact Qwest™ technical support at 1-888-777-9589.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

USB:

Qwest
Installation Guide
MODEM STATUS CHECK (USB)
Ensure the Power, DSL and USB lights are solid GREEN. If they are not, check each cable to ensure all cables have been securely connected.
NOTE: The Internet light will be OFF or red at this time.
If you need further assistance, please contact Qwest™ technical support at 1-888-777-9569.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

☞ ***Note***: The Internet light will be off or glow red at this time.

Next, go to "Setting Up the DSL Connection," on the next page.

Setting Up the DSL Connection

After connecting the Modem and installing phone filters, the DSL connection must be configured. Select the type of Internet access (MSN below, Qwest.net on page 38, or Other ISP on page 41), then follow the directions

Microsoft Network (MSN)

1. Read the on-screen instructions, select **MSN**, then click **Next**.

Qwest
Installation Guide
Please get the Welcome Letter (ISP Worksheet) provided by your ISP or located in your DSL installation kit. This letter lists the name of your Service Provider that was selected upon ordering Qwest DSL.
If Qwest DSL® with MSN® Premium or Qwest DSL with Internet Basic or Internet Prime was listed on your Welcome Letter as the Service Provider, select the appropriate option from the list below. Otherwise, select the box next to "Qwest DSL with Other ISP".
My Service Provider is:
Qwest DSL® w/MSN® Premium
Qwest DSL w/Internet Basic/Prime
Qwest DSL w/Other ISP
< Back
Next >
Help
Cancel

2. Read the on-screen subscription agreement, and if you accept it, click the circle next to "I Agree." Click **Next**.

Qwest Choice DSL
msn Premium
Installation Guide
Note: A printed copy of this agreement is included in your DSL Installation Kit
QWEST SUBSCRIPTION AGREEMENT
"YOUR USE OF QWEST DSL WITH MSN PREMIUM IS SUBJECT TO YOUR ACCEPTANCE OF THE FOLLOWING SUBSCRIPTION AGREEMENT. IF YOU WISH TO USE THIS SERVICE, PLEASE REVIEW THE QWEST SUBSCRIPTION AGREEMENT BELOW AND CLICK "I AGREE" TO SHOW YOUR CONSENT TO ITS TERMS."
1. Agreement. This Qwest Subscription Agreement ("Agreement") is made between you and Qwest Interprise America, Inc. ("Qwest") and governs your use of Qwest's Internet access service ("Services"). If you are a subscriber to Qwest DSL with MSN premium and not Qwest.net, Sections 5 and 7 do not apply to you, provided that you agree to the terms of MSN's subscription agreement. By establishing an account or using the Services, you agree to be bound by this Agreement and to use the
I Agree
I do not Agree
Back
Next
Help
Cancel

3. Enter the user name and password in the appropriate text boxes, enter them again in the pop-up window that appears, then click **Next**.

Qwest Choice DSL
msn Premium
Installation Guide
You need to enter your PPP User Name and PPP Password below, which can be found on your Welcome Letter.
Make sure that you enter the PPP User Name and PPP Password EXACTLY as they are listed on your Welcome Letter.
Actiontec
DSL Modem
Enter your PPP User Name here
Enter your PPP Password here
PPP User Name
PPP Password
Back
Next
Help
Cancel

4. The Modem is configured. This may take up to five minutes.

Qwest
Installation Guide
Your Gateway is now being configured.
Please wait.
This process may take 3 to 5 minutes.
Current Task : The Modem is not ready...Trying again...

5. After the Modem is finished being configured, a "Congratulations" screen appears. Read the on-screen information, then click **Next**.

Qwest Choice DSL
msn Premium
Installation Guide
Congratulations!
You have successfully set up your Qwest DSL service. You will begin installing your MSN Premium software momentarily. The following screens will provide additional information about the features of your Qwest DSL provided DSL Modem and service.
Did you know you can connect additional PC's to your Qwest DSL with MSN Premium service utilizing this disk? Just re-run the Installation Guide.
Click NEXT to continue.
Next >
Help
Cancel

6. A series of additional screens appear. Read the information contained in them, and click **Next** in each. When the screen below appears, the Installation Guide has finished, and the Modem has been connected and configured. Click **Finish**.

The Modem is now connected to MSN and is ready to use.

Qwest.net

1. Read the on-screen instructions, select **Qwest.net**, then click **Next**.

Qwest
Installation Guide
Please get the Welcome Letter (ISP Worksheet) provided by your ISP or located in your DSL installation kit. This letter lists the name of your Service Provider that was selected upon ordering Qwest DSL.
If MSN or Qwest.net was listed on your Welcome Letter as the Service Provider, select the appropriate option from the list below. Otherwise, select the box next to "Other ISP".
My Service Provider is:
MSN
Qwest.net
Other ISP
< Back
Next >
Help
Cancel

2. Read the on-screen subscription agreement, and if you accept it, click the circle next to "I Agree." Click **Next**.

Qwest
Installation Guide
QWEST.NET LICENSE >_<
QWEST SUBSCRIPTION AGREEMENT
"YOUR USE OF QWEST DSL WITH MSN PREMIUM IS SUBJECT TO YOUR ACCEPTANCE OF THE FOLLOWING SUBSCRIPTION AGREEMENT. IF YOU WISH TO USE THIS SERVICE, PLEASE REVIEW THE QWEST SUBSCRIPTION AGREEMENT BELOW AND CLICK "I AGREE" TO SHOW YOUR CONSENT TO ITS TERMS."
1. Agreement. This Qwest Subscription Agreement ("Agreement") is made between you and Qwest Interprise America, Inc. ("Qwest") and governs your use of Qwest's Internet access service ("Services"). If you are a subscriber to Qwest DSL with MSN premium and not Qwest.net, Sections 5 and 7 do not apply to you, provided that you agree to the terms of MSN's subscription agreement. By establishing an account or using the Services, you agree to be bound by this Agreement and to use the Services in compliance with this Agreement and the Qwest Acceptable Use Policy ("AUP") posted at http://www.qwest.com/legal/, and
I Agree
I do not Agree
Next
Cancel

3. Enter the user name and password in the appropriate text boxes, enter them again in the pop-up window that appears, then click **Next**.

Qwest
Installation Guide
You need to enter your PPP User Name and PPP Password below, which can be found on your Welcome Letter.
Make sure that you enter the PPP User Name and PPP Password EXACTLY as they are listed on your Welcome Letter.
Enter your PPP User Name here
Enter your PPP Password here
PPP User Name
PPP Password
Back
Next
Help
Cancel

4. The Modem is configured. This may take up to five minutes

Qwest
Installation Guide
Your Gateway is now being configured.
Please wait.
This process may take 3 to 5 minutes.
Current Task : The Modem is not ready...Trying again...

5. After the Modem is finished being configured, a "Congratulations" screen appears. Read the on-screen information, then click **Next**.

Qwest
Installation Guide
Congratulations!
You have successfully set up your Qwest DSL service. You will begin installing your MSN Premium software momentarily. The following screens will provide additional information about the features of your Qwest DSL provided DSL Modem and service.
Did you know you can connect additional PC's to your Qwest DSL with MSN Premium service utilizing this disk?
Just re-run the Installation Guide.
Click NEXT to continue.
Actiontec
Next >
Help
Cancel

6. A series of additional screens appear. Read the information contained in them, and click **Next** in each. When the screen below appears, the Installation Guide has finished, and the Modem has been connected and configured. Click **Finish**.

Qwest
Installation Guide
Congratulations! You have completed the installation of your Qwest DSL Service.
Once you select FINISH you will be taken to the Actiontec GT701-WG support page. Please bookmark the Actiontec GT701-WG support page for future reference.
Click FINISH to exit.
Help
Finish

The Modem is now connected to Qwest.net and is ready to use.

Other ISP

1. Read the on-screen instructions, select **Other ISP**, then click **Next**.

Qwest
Installation Guide
Please get the Welcome Letter (ISP Worksheet) provided by your ISP or located in your DSL installation kit. This letter lists the name of your Service Provider that was selected upon ordering Qwest DSL.
If MSN or Qwest.net was listed on your Welcome Letter as the Service Provider, select the appropriate option from the list below. Otherwise, select the box next to "Other ISP".
My Service Provider is:
MSN
Qwest.net
Other ISP
< Back
Next >
Help
Cancel

2. Select the appropriate IP Protocol type. This information should be provided by the ISP. When finished, click **Next**.
If **PPPoE** or **PPPoA** is selected, go to step 3.
If **RFC 1483** is selected, got to step 4.

Qwest
Installation Guide
In order to connect to the Internet, you must properly configure your broadband device.
The information needed to select the ISP protocol below can be found on your ISP Welcome Letter (ISP worksheet). If you have not received your ISP worksheet, please contact your ISP directly.
Once you've made your selection, click NEXT to continue.
ISP Protocol
PPPoE
PPPoA
RFC 1483
Back
Next
Help
Cancel

3. Enter the user name and password in the appropriate text boxes. If the ISP does not require a user name or password, click in the appropriate check box. Click **Next**.

Qwest
Installation Guide
Make sure you enter the PPP User Name and PPP Password EXACTLY as it is listed on your ISP worksheet. Pay special attention to the use of CAPITAL letters.
You now need to enter your PPP User Name and PPP Password below. The PPP User Name and PPP Password can be found on the ISP Welcome Letter (ISP Worksheet) provided by your ISP of choice. The ISP welcome letter will be provided separately or in some cases in your modem fulfillment kit depending on your selected ISP
Enter your PPP User Name here
Enter your PPP Password here
My ISP does not require this information
PPP User Name
PPP Password
Back
Next
Help
Cancel

4. Select the appropriate IP type. This information is available in the Welcome Letter. When finished, click **Next**.
If **Static IP** is selected, go to step 5.
If **Dynamic IP (DHCP)** is selected, got to step 7.

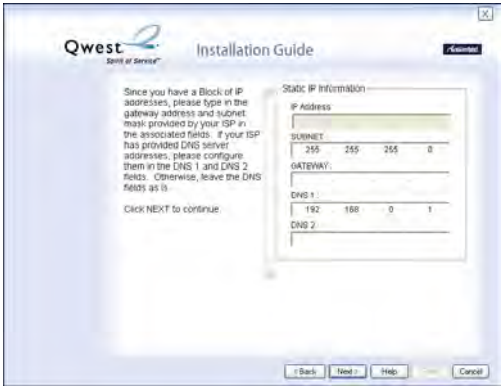
Qwest
Spirit of Service
Installation Guide
Please select from the following IP types. The IP type will be provided by your ISP of choice and can be found on your ISP Welcome Letter (ISP Worksheet).
Click NEXT to continue.
IP Type:
Dynamic IP (DHCP)
Static IP
Back
Next
Help
Cancel

5. Select the type of Static IP address received from the ISP (**Single** or **Block**), then click **Next**.

Qwest
Spirit of Service
Installation Guide
If you have received a single Static IP address from your Internet Service Provider (ISP), please click on "Single Static IP" below. If you have leased a block of Static IP Addresses from your ISP, please select "Block of IP Addresses" below.
IP Addressing information can be found on your ISP Welcome Letter (or Worksheet). If you have questions relating to your address configuration, please contact your ISP directly.
Please select from the following options:
Block of IP Addresses
Single Static IP
Back
Next
Help
Cancel

6. Enter the **IP Address**, **Subnet**, **Gateway**, **DNS 1**, and **DNS 2** information (if applicable) in the proper text boxes. This information is available in the Welcome Letter. When finished, click **Next.**

Block of IP Addresses:


Qwest
Installation Guide
Since you have a Block of IP addresses, please type in the gateway address and subnet mask provided by your ISP in the associated fields. If your ISP has provided DNS server addresses, please configure them in the DNS 1 and DNS 2 fields. Otherwise, leave the DNS fields as is.
Click NEXT to continue.
Static IP Information
IP Address
SUBNET
255 255 255 0
GATEWAY
DNS 1
192 168 0 1
DNS 2
< Back
Next >
Help
Cancel

Single IP Addresses:

Qwest
Installation Guide
Since you have a Single Static IP, please type in the IP address provided by your ISP in the IP Address field. If your ISP has provided DNS server addresses, please configure them in the DNS 1 and DNS 2 fields. Otherwise, leave the DNS fields as is.
Click NEXT to continue.
Static IP Information
IP Address
SUBNET
GATEWAY
DNS 1
192 168 0 1
DNS 2
< Back
Next >
Help
Cancel

7. The Installation Guide checks the configuration of the Modem.

Qwest
Installation Guide
Your Gateway is now being configured.
Please wait.
This process may take 3 to 5 minutes.
Current Task : The Modem is not ready...Trying again...

8. A "Congratulations" screen appears. Read the on-screen information, then click through the next few windows to exit the Installation Guide.

Qwest
Installation Guide
Congratulations!
You have successfully set up your Qwest DSL service. You will begin installing your MSN Premium software momentarily. The following screens will provide additional information about the features of your Qwest DSL provided DSL Modem and service.
Did you know you can connect additional PC's to your Qwest DSL with MSN Premium service utilizing this disk?
Just re-run the Installation Guide.
Click NEXT to continue.
Next >
Help
Cancel

9. A series of additional screens appear. Read the information contained in them, and click **Next** in each. When the screen below appears, the Installation Guide has finished, and the Modem has been connected and configured. Click **Finish**.

Qwest
Installation Guide
Congratulations! You have completed the installation of your Qwest DSL Service.
Once you select FINISH you will be taken to the Actiontec GT701-WG support page. Please bookmark the Actiontec GT701-WG support page for future reference.
Click FINISH to exit.
Qwest
Spirit of Service
Help
Finish

The Modem is now connected and ready to use.

Using Qwest DSL

3

Qwest DSL operates over home or business phone lines equipped with Qwest DSL service. For this reason, the Qwest DSL connection is not portable; it can't be accessed while away from the home or business. To connect while traveling, ask the ISP about a dial-up account. Most Qwest DSL ISPs provide a dial-up account for free, while others charge a minimal fee.

Qwest DSL is a highly reliable service, but it is possible to have a dial-up connection in the unlikely event that problems arise with the DSL service. Most Qwest DSL ISPs provide a dial-up account for free. If not, there are a number of free Internet providers whose products make great backup Internet access in the unlikely event they are ever needed.

Connecting to the Internet

Whether connecting via Point-to-Point Protocol (PPPoE, PPPoA) or Bridging Mode (RFC 1483), after connecting and configuring the Gateway, the Internet connection is always on. Therefore, to connect or reconnect to the Internet, simply turn on your computer, open the Web browser and go to the Web site of your choice. No further set up is needed.

Disconnecting from the Internet

Closing the Web browser does not disconnect you from the Internet. To fully disconnect, turn off your computer.

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Basic Setup

4

This chapter is a guide through a basic setup of the Modem for those users who did NOT use the *Action*tec Installation Buddy® to setup the Modem. The Basic Setup includes instructions on how to connect the Modem to the ISP and changing the user name and password allowing access to the Web Configuration screens.

To complete a basic setup, the user will need information provided by the ISP. This information is sometimes contained in a welcome letter or ISP worksheet. If this document is not available, contact the ISP immediately and request one.

Basic Setup

To configure the Modem for basic operation:

☞ ***Note:*** If you already set up the Modem using the Installation Buddy (as described in Chapter 2, "Setting Up the Modem"), the settings described in this section have already been configured. Continue to chapter 4, "Using Advanced Setup," to configure the advanced settings of the Modem.

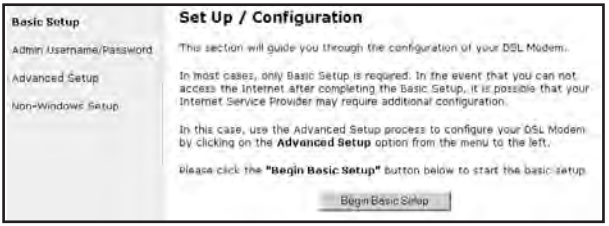
1. Open a Web browser. In the "Address" text box, type

`http://192.168.0.1`

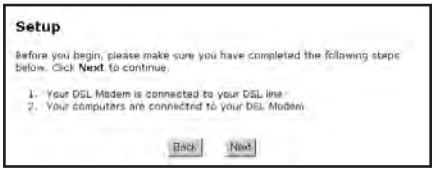
then press **Enter** on the keyboard.

2. The "Main Menu" screen appears. Select **Setup/Configuration**.

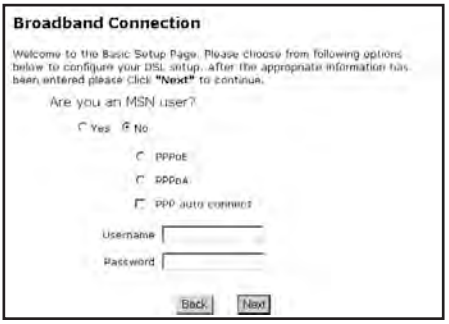
3. Follow the instructions in the "Set Up/Configuration" screen, then click **Begin Basic Setup**.


Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

4. In the next window, follow the on-screen instructions, then click **Next**.


Setup
Before you begin, please make sure you have completed the following steps below. Click Next to continue.
1. Your DSL Modem is connected to your DSL line
2. Your computers are connected to your DSL Modem
Back
Next

5. In the next screen, indicate whether the user is using MSN (Microsoft Network) by clicking in the appropriate circle. Then, select the type of connection provided by the ISP by clicking in the circle next to **PPPoA** or **PPPoE.** If unsure about the selection, check the information provided by the ISP. Finally, enter the **User Name** and **Password** provided by the ISP.

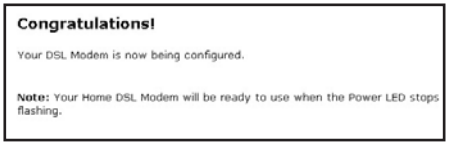


☞ *Note*: If you obtained a block of Static IP addresses, see Chapter 5, "Advanced Setup," on page 63 to configure the Modem.

6. Click **Save and Restart** in the "Save and Restart" screen.

Save and Restart
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

7. The "Congratulations" screen appears. The Modem is successfully configured.

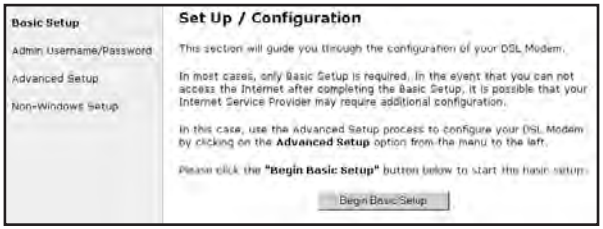

Congratulations!
Your DSL Modem is now being configured.
Note: Your Home DSL Modem will be ready to use when the Power LED stops flashing.

The Power Light flashes rapidly while the Modem restarts, then glows steadily green when fully operational. The Internet Light will also glow steadily green. The Modem is now configured and users can start surfing the Web.
If an error stating the Web browser was unable to connect to the Internet appears, check the configuration settings. Ensure all the information required by the ISP is entered correctly.

Changing the User Name and Password

To create or change the user name and password controlling access to the Modem's Web Configuration screens, follow these instructions:

1. From the Setup/Configuration screen, select **Admin Username/Password** from the menu on the left side.

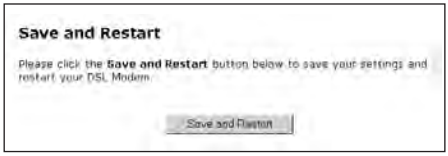

Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

2. The "Change Admin Username/Password" screen appears. Enter a new user name (optional) in the "New Username" text box, then a password in the "New Password" text box. Re-enter the password in the "Re-enter New Password" text box. Make sure to write the user name and password down and keep them in a secure location. They will be needed to access to the Modem's Web Configurations screens in the future.

Change Admin Username/Password
New Username
admin
New Password
Re-enter New Password
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

3. Click "Save and Restart" at the bottom of the screen.

4. The "Save and Restart" screen appears. Click "Save and Restart" to save the settings changed in the Change Admin Username/Password screen.


Save and Restart
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

Once the Modem has rebooted, the password is active. To access the Modem's Web Configuration screens, the username and password must be entered.

Setting Up Static IP Address

5

This chapter details how to set up the Modem with a static IP address. The first section explains the configuration using a single static IP address; the second section explains the configuration using a block of static IP addresses.

Configuring for a Single Static IP Address

To set up the Modem to use a single static IP address:

☞ ***Note***: To complete this procedure, you must have access to the Internet Service Provider (ISP) worksheet. If no worksheet has been provided, contact the ISP.

1. Open the Web browser. In the address bar enter:

`http://192.168.0.1`

then press **Enter** on the keyboard.

2. The "Main Menu" screen appears. Select **Setup/Configuration**.

☞ ***Note***: If the Main Menu screen does not appear, make sure the Ethernet cable is properly connected.

3. In the "Set Up/Configuration" screen, select **Non-Windows Setup** from the menu on the left side.

Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

4. The "Actiontec DSL Modem Setup Page" screen appears. Using the Internet Service Provider (ISP) worksheet, enter the following information: ISP Protocol (select **RFC1483 Bridged**, **RFC1483 Routed**, **PPPoA**, or **PPPoE** by clicking in the appropriate circle), ISP Username, ISP Password (in the appropriate text boxes).

Actiontec DSL Modem Setup Page

The following will setup the router to work with your DSL provider.

The Actiontec DSL Modem setup page can be used to setup your DSL Modem for the following configurations.
1) RFC1483 Bridged with DHCP. Bridging session terminated in the 3.60.1.0.5.4-GT701-WG; via a DHCP address from the ISP. DHCP/NAT is used on the LAN side to run multiple LAN devices. (Same for RFC1483 Routed)
2) RFC1483 Bridged with Static IP. Bridging session terminated in the 3.60.1.0.5.4-GT701-WG; via a single Static IP address from the ISP. DHCP/NAT is used on the LAN side to run multiple LAN devices. (Same for RFC1483 Routed)
3) PPPoA with dynamic IP Addressing. (Same for PPPoE)
4) PPPoA with a Single Static IP Address. (Same for PPPoE)

The advanced configuration session must be used to set the DSL Modem for transparent bridging and PPPoA with a block of static IP addresses.

Please locate your Internet Service Provider(ISP) worksheet. The ISP worksheet is required to complete the following. The ISP worksheet is sent separately from your DSL fulfillment package directly from your ISP of choice. If you do not have an ISP worksheet, please contact your ISP directly.

ISP Protocol

Please select the protocol below listed on your ISP worksheet.

RFC1483 Bridged
RFC1483 Routed
PPPoA
ISP Username: Not applicable
ISP Password: Not applicable
PPPoE
ISP Username:
ISP Password:

IP Configuration

Please select your ISP addressing scheme listed on your ISP worksheet.

Dynamic
Static
IP:
Subnet:
Gateway:

DNS Configuration

Dynamic
Static
Primary DNS:
Secondary DNS:

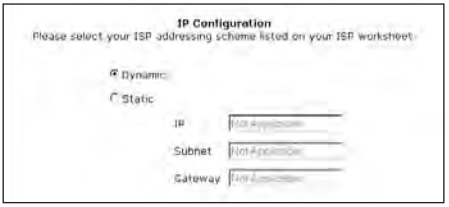
NOTE: This page will setup the router for use with your DSL provider. In addition to setting up the router you may be required to perform additional configuration changes on your computer.

Thank you for choosing DSL as your high-speed access of choice.

Please click the **Save and Restart** button below to save your settings and restart your DSL Modem.

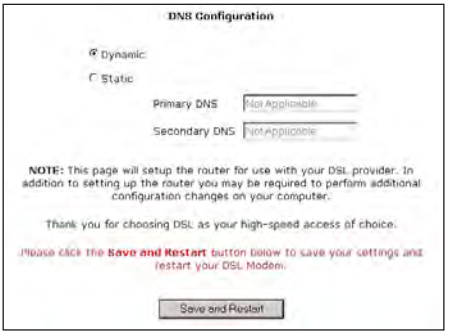
Save and Restart

5. Scroll down to the IP Configuration section on the Actiontec DSL Modem Setup Page screen, click on the circle next to "Static," and enter the IP address obtained from the ISP worksheet in the IP text box.



☞ ***Note***: The "Subnet" and "Gateway" text boxes are not used during this procedure.

6. If provided with DNS settings on the ISP worksheet, click the circle next to "Static" and enter the DNS addresses in the "DNS Configuration" section at the bottom of the Actiontec DSL Modem Setup Page screen.
If no DNS settings were provided, go to step 7.

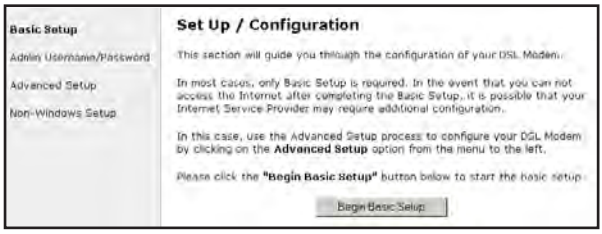

DNS Configuration
Dynamic
Static
Primary DNS
Secondary DNS
NOTE: This page will setup the router for use with your DSL provider. In addition to setting up the router you may be required to perform additional configuration changes on your computer.
Thank you for choosing DSL as your high-speed access of choice.
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

7. Click "Save and Restart" at the bottom of the screen.

8. The "Save and Restart" page appears. Click "Save and Restart" to save the settings changed in the Actiontec DSL Modem Setup Page screen.

Save and Restart
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

9. Once the Modem restarts, return to the Setup/Configuration screen and select **Change Admin Password** from the menu on the left side.


Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

10. The "Change Admin Username/Password" screen appears. Enter a new user name (optional) in the "New Username" text box, then a password in the "New Password" text box. Re-enter the password in the "Re-enter New Password" text box. Make sure to write the user name and password down and keep them in a secure location. They will be needed to access to the Modem's Web Configurations screens in the future.

Change Admin Username/Password
New Username admin
New Password
Re-enter New Password
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

11. Click "Save and Restart" at the bottom of the screen.

12. The "Save and Restart" page appears. Click "Save and Restart" to save the settings changed in the Change Admin Username/Password screen.

Save and Restart
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

The Modem has been configured to support a single static IP address. Once the Power light stops blinking, the Modem is ready for use.

Configuring for a Block of Static IP Addresses

To set up the Modem to use a block of static IP addresses:

☞ ***Note***: To complete this procedure, you must have access to the Internet Service Provider (ISP) worksheet. If no worksheet has been provided, contact the ISP.

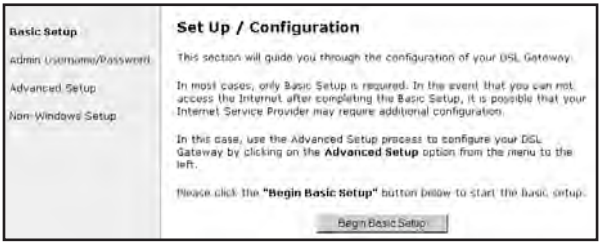
1. Open the Web browser. In the address bar enter:

`http://192.168.0.1`

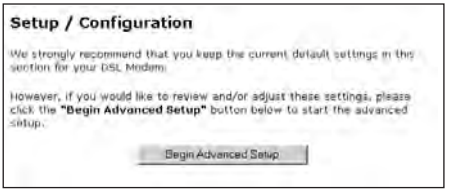
then press **Enter** on the keyboard.

2. The "Main Menu" screen appears. Select **Setup/Configuration**.

3. In the "Set Up/Configuration" screen, read the instructions, then select **Advanced Setup** from the menu on the left side.


Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Gateway.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Gateway by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

4. Click **Begin Advanced Setup**.

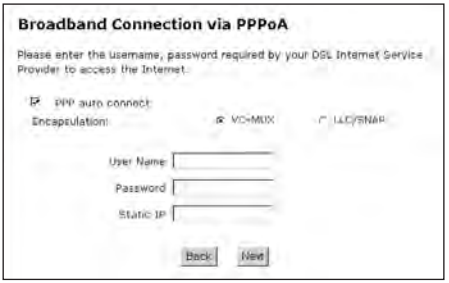

Setup / Configuration
We strongly recommend that you keep the current default settings in this section for your DSL Modem.
However, if you would like to review and/or adjust these settings, please click the "Begin Advanced Setup" button below to start the advanced setup.
Begin Advanced Setup

5. The "Configuring the Advanced Settings" screen appears. Select **WAN IP Address** from the menu on the left side.

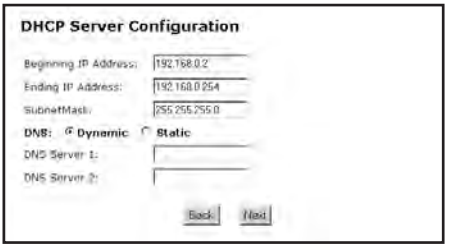
6. Select "Obtain an IP Address through PPPoA," select "Unnumbered Mode," then enter the gateway and subnet mask addresses assigned by the ISP in the "Gateway Address" and "Unnumbered Subnet Mask" text boxes, respectively. These addresses should be included on the ISP worksheet. Click **Next**.

7. A window appears, stating that the computer needs to rebooted. Reboot the computer.

8. After the computer reboots, return to the the "Broadband Connection via PPPoA" screen and enter the user name and password assigned by the ISP in the appropriate text boxes, then click **Next** four times.



9. In the "DHCP Server Configuration" screen, select "Static" from the "DNS" options near the center of the screen, then enter the DNS Server IP addresses assigned by the ISP in the appropriate text boxes.



☞ ***Note***: If the ISP did not provide static DNS addresses, leave the DNS option at "Dynamic." Also, if the DHCP server option is turned off, this screen will not appear. The Modem will obtain dynamically assigned DNS addresses if supported by the ISP with static IP addresses.

10. Click "Save and Restart" from the menu on the left side.

11. The "Save and Restart" page appears. Click "Save and Restart" to save the settings changed in the Actiontec DSL Modem Setup Page screen.

Save and Restart
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

12. Once the Modem restarts, return to the Setup/Configuration screen and select **Change Admin Password** from the menu on the left side.

Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

13. The "Change Admin Username/Password" screen appears. Enter a new user name (optional) in the "New Username" text box, then a password in the "New Password" text box. Re-enter the password in the "Re-enter New Password" text box. Make sure to write the user name and password down and keep them in a secure location. They will be needed to access to the Modem's Web Configurations screens in the future.

Change Admin Username/Password
New Username admin
New Password
Re-enter New Password
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

14. Click "Save and Restart" at the bottom of the screen.

15. The "Save and Restart" page appears. Click "Save and Restart" to save the settings changed in the Change Admin Username/Password screen.

Save and Restart
Please click the Save and Restart button below to save your settings and restart your DSL Modem.
Save and Restart

The Modem has been configured to support a block of static IP addresses. Once the Power light stops blinking, the Modem is ready for use.

Advanced Settings

6

This section contains information concerning advanced configuration, such as wireless settings, remote management, and Web site blocking.

Accessing Advanced Setup

To access the Advanced Settings screens, follow these instructions:

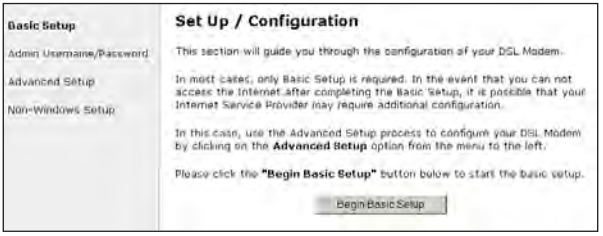
1. Open the Web browser. In the address bar enter:

`http://192.168.0.1`

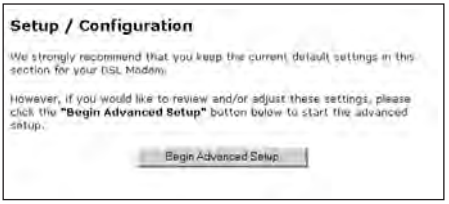
then press **Enter** on the keyboard.

2. The "Main Menu" screen appears. Select **Setup/Configuration**.

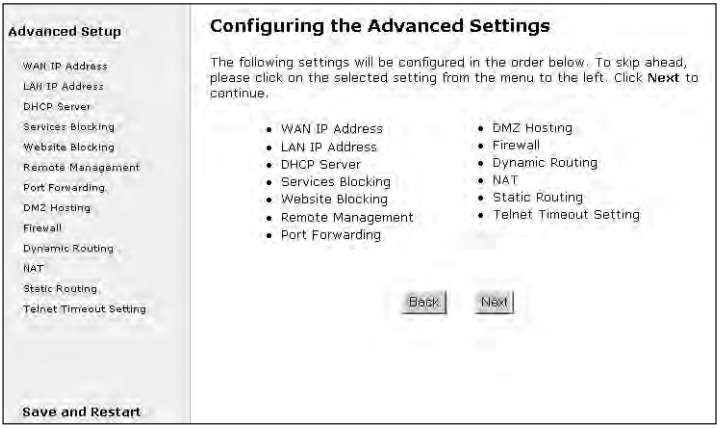
3. In the "Set Up/Configuration" screen, read the instructions, then select **Advanced Setup** from the menu on the left side.


Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

4. In the next screen, read the recommendations. To perform an advanced setup on the Modem, click **Begin Advanced Setup**.


Setup / Configuration
We strongly recommend that you keep the current default settings in this section for your DSL Modem.
However, if you would like to review and/or adjust these settings, please click the "Begin Advanced Setup" button below to start the advanced setup.
Begin Advanced Setup

5. The "Configuring the Advanced Settings" screen appears. To check all the settings, or if unsure of which settings to modify, select **Next**. To modify a specific configuration, click on its name in the menu on the left.



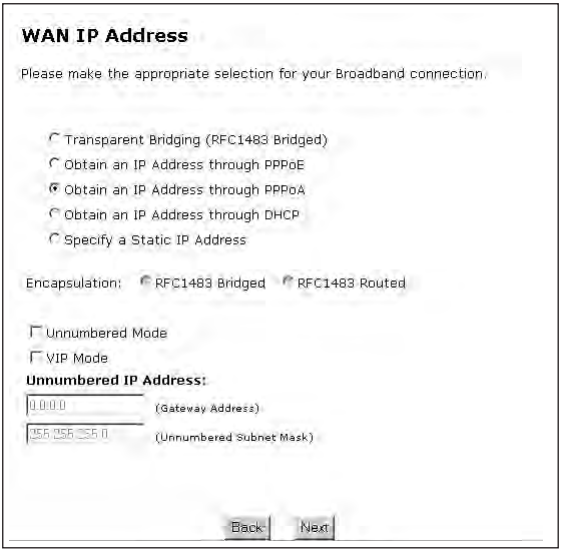
☞ ***Note***: To save changes made in any of the Advanced Settings screens, click **Save and Restart** at the bottom of the menu on the left side of the screen.

WAN IP Address

Selecting **WAN IP Address** in the "Advanced Settings" screen generates the "WAN IP Address" screen. WAN IP Address allows manual set up of the IP address of the Modem. There are five ways to do this: **Transparent Bridging, Obtain an IP Address through PPPoE**, **Obtain an IP Address Through PPPoA**, **Obtain an IP Address through DHCP**, and **Specify a Static IP Address**.

☞ ***Note***: Some DSL providers use PPPoE/PPPoA to establish communication with an end user. If unsure about which connection is present, check with the Internet Service Provider (ISP) before continuing.

After selecting a connection type, click **Next** to continue configuring the connection.

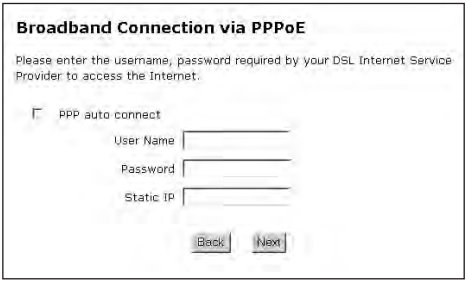


Transparent Bridging

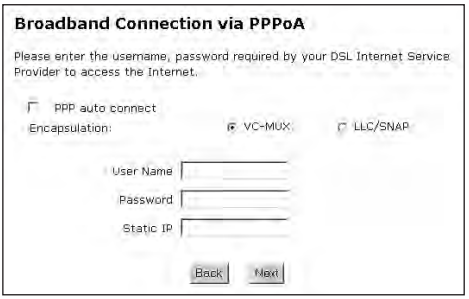
Select this option to use the Modem as a transparent bridge. This option should only be used if the Modem is being used solely as a modem to connect one computer to the Internet via a DSL connection. When the Modem is being used as a transparent bridge, it does not provide any firewall security.

Obtain an IP Address through PPPoE or PPPoA

Select one of these options to allow the Modem to use the Point-to-Point over Ethernet (PPPoE) or Point-to-Point over ATM (PPPoA) protocol.
"**Broadband Connection via PPPoE" screen:**



"Broadband Connection via PPPoA" screen:



If a **User Name** and **Password** was entered in the Installation Buddy or during Basic Setup, it should be displayed in the "Broadband Connection via PPPoE/ PPPoA" screen. If not, enter the information now. If the information is unavailable, contact the ISP.

PPP Auto Connect

If **PPP auto connect** is activated (by clicking in the appropriate check box), the Modem will attempt to automatically redial the PPP connection if it is dropped or disconnected during an online session. PPP Auto Connect is turned **ON** by default.

Encapsulation (PPPoA only)

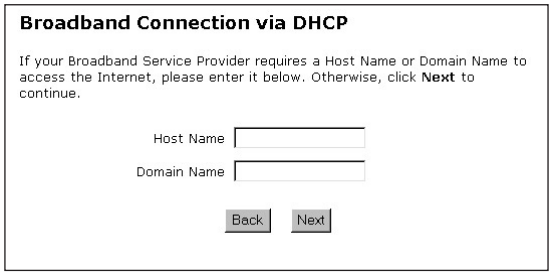
Select one of the encapsulation options, based on information received from the ISP.

Obtain an IP Through DHCP

Select this option if the IP service is configured to use RFC 1483 Bridged or Routed (used for configurations without a Static IP assigned by an ISP). In this mode, the Modem will query the Internet Service Provider (ISP) to receive the IP address and routing information, which will terminate at the Modem, as opposed to the IP address and routing information being bridged to terminate at the computer. This allows the use of the router capabilities for the Local Area Network (LAN).

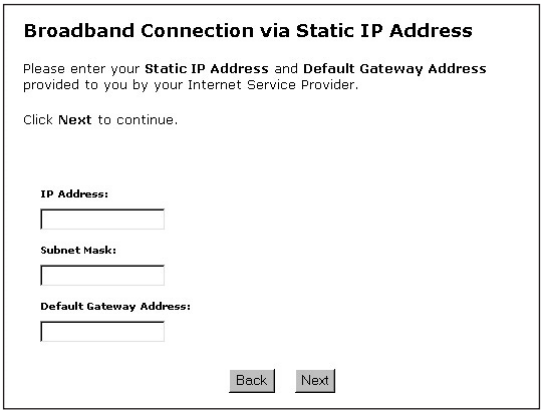
Some ISPs need to authenticate their end users with a **Host Name** and/or **Domain Name**. If this is the case, check with the ISP for a host name and domain name and enter them in the "Broadband Connection via DHCP" screen. If the ISP does not require these settings, leave the text boxes blank.

☞ ***Note***: Contact the ISP if unsure of the proper configuration.


Broadband Connection via DHCP
If your Broadband Service Provider requires a Host Name or Domain Name to access the Internet, please enter it below. Otherwise, click Next to continue.
Host Name
Domain Name
Back
Next

Specify a Static IP Address

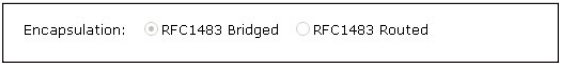
Select this option if the ISP service is configured to use RFC 1483 Bridged or Routed using a static IP Address. Enter the **IP Address**, **Subnet Mask**, and **Default Modem Address** provided by the ISP in the "Broadband Connection via Static IP Address" screen, which causes the IP address and routing information to terminate at the Modem, as opposed to the IP address and routing information being bridged to terminate at the computer. This allows the use of the router capabilities for the Local Area Network (LAN).


Broadband Connection via Static IP Address
Please enter your Static IP Address and Default Gateway Address provided to you by your Internet Service Provider.
Click Next to continue.
IP Address:
Subnet Mask:
Default Gateway Address:
Back
Next

☞ ***Note***: Contact the ISP if unsure of the proper configuration.

Encapsulation

If the Modem is configured to obtain an IP address through DHCP or to specify a static IP address, select the appropriate encapsulation option used by the ISP (**RFC 1483 Bridged** or **RFC 1483 Routed**).



☞ ***Note***: Contact the ISP if unsure of the proper configuration.

Unnumbered Mode/VIP Mode

If a block of public static IP addresses was purchased from the ISP, select **Unnumbered Mode** by clicking in the appropriate check box. Then, enter the **IP Address** and **Subnet Mask** in the "Gateway Address" and "Unnumbered Subnet Mask" text boxes below the "Unnumbered IP Address." Click **Next**, then click **Save and Restart** to make all changes permanent.
The Unnumbered Mode feature automatically configures the appropriate IP routing for the IP Address block. The IP route will bypass NAT, enabling the public IPs to be routed WAN-to-LAN, as well as LAN-to-WAN.

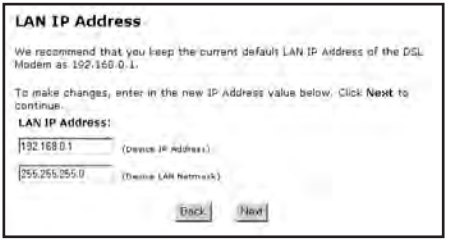
☞ ***Note***: The IP Address information should be obtained from the ISP when purchasing a block of public static IP address. Contact the ISP if this information was not received.

VIP Mode This feature is used in conjunction with Unnumbered Mode. When VIP Mode is activated, the Modem uses NAT for private IP addressing for the Local Area Network (LAN), allowing both public IP addressing and private IP addressing to be configured to the LAN simultaneously, while the DHCP server is reserved for private IP addressing. All computers using public IP addresses with Unnumbered Mode must have the public IP addresses statically assigned.

After configuring your settings, click **Next**, then click **Save and Restart** to make all changes permanent.

LAN IP Address

Selecting **LAN IP Address** in the "Advanced Settings" screen generates the "LAN IP Address" screen.


LAN IP Address
We recommend that you keep the current default LAN IP Address of the DSL Modem as 192.168.0.1.
To make changes, enter in the new IP Address value below. Click Next to continue.
LAN IP Address:
192.168.0.1
255.255.255.0
Back
Next

The values in the "LAN IP Address" and "Netmask" text boxes are the IP address and Subnetmask of the Modem as seen on the network. These values can be modified for your LAN network, but Actiontec recommends keeping the default factory settings (IP Address 192.168.0.1 and Subnet mask 255.255.255.0).

Note: If the Modem's LAN IP Address is modified, verify the DHCP Server range is within the same subnet. For more information, see "DHCP Server Configuration."

After changing settings, click Next or Back to continue, or Save and Restart to make all changes permanent.

DHCP Server

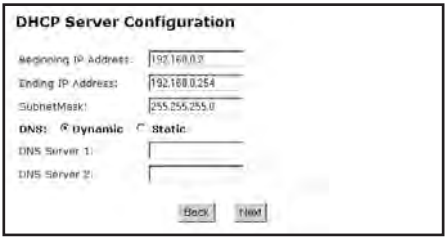
Selecting **DHCP Server** in the "Advanced Settings" screen generates the "DHCP Server" screen. The Modem has a built-in DHCP (Dynamic Host Configuration Protocol) server that automatically assigns a different IP address to each computer on the network, eliminating IP address conflicts.
The factory default setting is **On**. To disable the DHCP Server, select **Off**.

DHCP Server
Your DSL Modem will automatically assign an IP Address to each computer in your network.
We recommend that you keep the current default DHCP Server settings. If you already have a DHCP server in your network, you may need to turn this function off.
Click Next to continue.
On
Off
Back
Next

*Action*tec strongly recommends leaving the DHCP Server option **On**. If the DHCP Server option is **Off**, ensure the IP addresses of the networked computers are on the same subnet as the IP address of the Modem. For more information, see "DHCP Server Configuration."

DHCP Server Configuration

Clicking **Next** in the "DHCP Server" screen generates the "DHCP Server Settings" screen. Change IP address range and DNS server information here.



Beginning IP Address, Ending IP Address

These are the IP addresses at which the DHCP server starts and stops assigning IP addresses. *Action*tec recommends keeping the factory default settings for these IP addresses (192.168.0.2 and 192.168.0.254, respectively).
The beginning and ending IP addresses define the IP address range of the Modem. If the default values are left intact, the Modem supplies a unique IP address between 192.168.0.2 and 192.168.0.254 to each computer on the network. Note that the first three groups of numbers of the addresses are identical; this means they are on the same subnet. The IP address of the Modem must be on the same subnet as the IP address range it generates. For instance, if the Modem's IP address is changed to 10.33.222.1, set the beginning IP address to 10.33.222.2, and the ending IP address to 10.33.222.254.

DNS (Dynamic or Static)

This is the type of DNS server provided by the ISP. If the ISP provided DNS server information, select the type here. If not, leave as is.

DNS Server 1

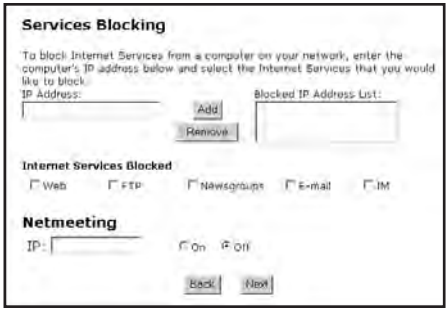
The primary DNS server provided by the ISP. If the ISP provided DNS server information, enter it here. If not, leave the text box intact.

DNS Server 2

The secondary DNS provided by the ISP. If the ISP provided secondary DNS server information, enter it here. If not, leave the text box intact.

Services Blocking

Selecting **Services Blocking** in the "Advanced Settings" screen generates the "Services Blocking" screen.



To modify Internet privileges (Web, FTP, Newsgroups, etc.) for the computers on the network:

1. Enter the computer's IP address in the **IP Address:** text box.
2. Select the Internet service(s) to be blocked.
3. Click **Add** to enter the computer's IP address in the "Blocked IP Address List" text box.
4. To remove blocked services, select the computer's IP address in the "Blocked IP Address List" text box and click **Remove**.

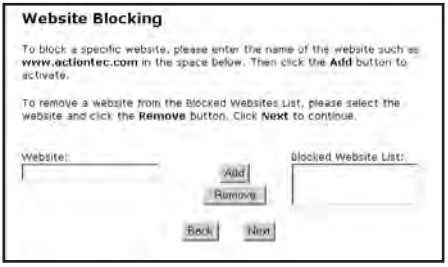
Netmeeting

If a computer on the network uses Netmeeting, enable Netmeeting, by clicking the circle next to "On" and entering the IP address of the computer. Click **Next**, then click **Save and Restart** to apply the settings. If Netmeeting is not needed, click the circle next to "Off."

☞ ***Note***: Netmeeting is used for NAT/Private IP addressing only. If the computer is configured for Unnumbered Mode and has a Public IP Address, Netmeeting does not have to be enabled.

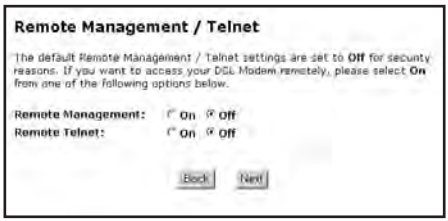
Website Blocking

Selecting **Website Blocking** in the "Advanced Settings" screen generates the "Website Blocking" screen. This feature enables the Modem to block Web sites to all computers on the network. To block a Web site, enter the address of the Web site in the "Website" text box and click **Add**. The blocked Web site address will be displayed in the "Blocked Website List" text box, and will not be available to computers on the network. To remove a blocked Web site, click on it in the "Blocked Website List," then click **Remove**.


Website Blocking
To block a specific website, please enter the name of the website such as www.actiontec.com in the space below. Then click the Add button to activate.
To remove a website from the Blocked Websites List, please select the website and click the Remove button. Click Next to continue.
Website:
Blocked Website List:
Add
Remove
Back
Next

Remote Management/Telnet

Selecting **Remote Management** in the "Advanced Settings" screen generates the "Remote Management/Telnet" screen. Remote Management allows access to the Modem through the Internet via another computer. *Action*tec recommends leaving the Remote Management and Remote Telnet **Off** (the factory default setting).


Remote Management / Telnet
The default Remote Management / Telnet settings are set to Off for security reasons. If you want to access your DSL Modem remotely, please select On from one of the following options below.
Remote Management: On Off
Remote Telnet: On Off
Back
Next

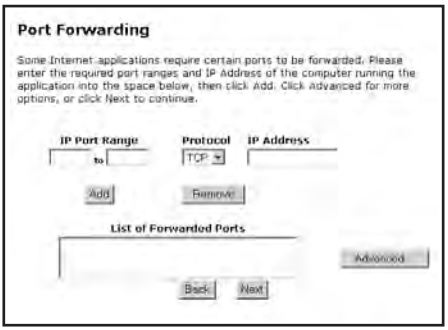
To access the Modem from the Internet, activate Remote Management by selecting **On next to "Remote Management"** and writing down the WAN IP address of the Modem (see "WAN IP Address"). On a computer outside of the network, open a Web browser and enter the Modem's WAN IP address in the address text box. The Modem's Main Menu (or a password prompt, if a password has been set) appears in the browser window.

☞ ***Note***: Before Remote Management can be activated, the administrator password must be set. To do this, go to the Setup screen and select Change Admin Password. Follow the instructions in the subsequent screens

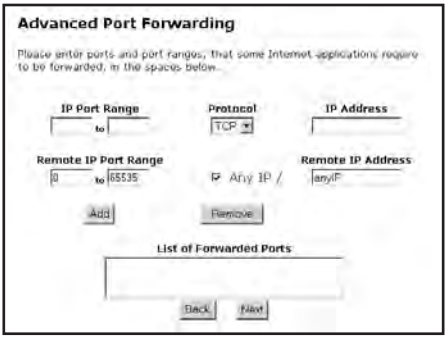
To access the Modem via Telnet, activate Remote Telnet by selecting **On** next to "Remote Telnet."

Port Forwarding

Selecting **Port Forwarding** in the "Advanced Settings" screen generates the "Port Forwarding" screen. Port forwarding allows certain programs to bypass the Modem's built-in firewall, allowing access to parts of the network (for hosting a Web or ftp server, for example). To use port forwarding, enter the IP port range in the "IP Port Range" text boxes. (If more than 10 ports are needed, *Action*tec recommends using DMZ Hosting. See "DMZ Hosting," on the next page, for more information.) Choose the protocol type from the "Protocol" list box, then enter the IP address of the computer on the network to be used as a host. Click **Add**. The forwarded ports appear in the "List of Forwarded Ports" text box.
To remove forwarded ports, highlight them, then click **Remove**.


Port Forwarding
Some Internet applications require certain ports to be forwarded. Please enter the required port ranges and IP Address of the computer running the application into the space below, then click Add. Click Advanced for more options, or click Next to continue.
IP Port Range
to
Protocol
TCP
IP Address
Add
Remove
List of Forwarded Ports
Advanced
Back
Next

Clicking **Advanced** brings up the "Advanced Port Forward" screen.



In this screen, the user can allow only certain IP addresses to access forwarded ports. Enter the port range of the forwarded ports in the "Remote IP Port Range" text boxes, enter the IP address to be allowed access in the "Remote IP Address" text box, then click **Add**. The active forwarded ports will appear in the "List of Forwarded Ports" text box.
To deactivate a forwarded port, select it from the "List of Forwarded Ports" text box, then click "Remove."

DMZ Hosting

Selecting **DMZ Hosting** in the "Advanced Settings" screen generates the "DMZ Hosting" screen. To use DMZ hosting, enter the IP address of the computer on the network to be used as a DMZ host in the "DMZ Host IP Address" text box, then click **On**.

DMZ Hosting
Your DSL Modem can be configured to support Online Gaming and Internet conferencing services on a network computer. To use this feature, enter the IP Address of the computer in the DMZ Host field below.
Warning: Using a computer in DMZ mode opens the computer to outside intrusion, creating a security risk.
DMZ Host IP Address
On
Off
Back
Next

DMZ hosting is used to support online gaming and Internet conferencing services. These programs usually require multiple open ports, making the network accessible from the Internet. DMZ hosting symbolically places the DMZ host computer outside of the Modem's network. *Action*tec recommends activating DMZ hosting only as long as necessary.

Warning: The DMZ Host computer will be vulnerable to computer hackers on the Internet while in DMZ mode.

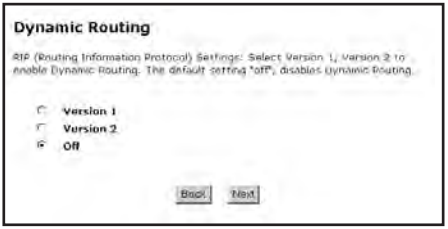
Firewall

Selecting **Firewall** in the "Advanced Settings" screen generates the "Firewall Security Level" screen. Select the level of security needed for the network. See Appendix F for details concerning each level of security.

Firewall Security Level
The default Firewall Security Level is set to "Basic". You can change the Firewall Security Level to suit your networking needs.
(Note: Once you have selected a security level, all IP traffic other than the policies specified will be blocked by the Firewall. Refer to the User Manual for detailed information on Firewall policies.)
High
Medium
Low
Basic
Back
Next

Dynamic Routing

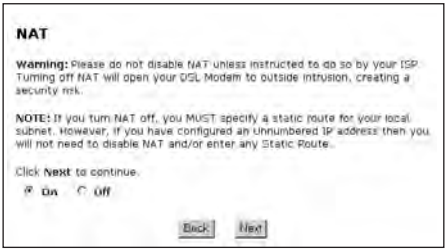
Selecting **Dynamic Routing** in the "Advanced Settings" screen generates the "Dynamic Routing" screen.


Dynamic Routing
RIP (Routing Information Protocol) Settings: Select Version 1, Version 2 to enable Dynamic Routing. The default setting "off", disables Dynamic Routing.
Version 1
Version 2
Off
Back
Next

If a gateway is set up behind the Modem in the network configuration, consult the documentation that came with the gateway to see what kind of Dynamic Routing is required, then select the needed option.

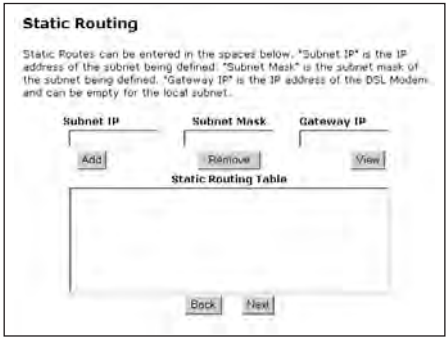
NAT (Network Address Translation)

Selecting **NAT** in the "Advanced Settings" screen generates the "NAT" screen. The Modem's basic firewall security is based on NAT. Disabling NAT allows the computers connected to the Modem to be accessed by outside parties. Do not turn NAT off unless instructed to do so by the ISP.


NAT
Warning: Please do not disable NAT unless instructed to do so by your ISP. Turning off NAT will open your DSL Modem to outside intrusion, creating a security risk.
NOTE: If you turn NAT off, you MUST specify a static route for your local subnet. However, if you have configured an Unnumbered IP address then you will not need to disable NAT and/or enter any Static Route.
Click Next to continue.
On
Off
Back
Next

Static Routing

Selecting **Static Routing** in the "Advanced Settings" screen generates the "Static Routing" screen. Enter the addresses in their respective text boxes, then click **Add**. The address will appear in the "Static Routing Table." To remove an address, highlight it by clicking on it in the Static Routing Table, then click **Remove**.


Static Routing
Static Routes can be entered in the spaces below. "Subnet IP" is the IP address of the subnet being defined. "Subnet Mask" is the subnet mask of the subnet being defined. "Gateway IP" is the IP address of the DSL Modem and can be empty for the local subnet.
Subnet IP
Subnet Mask
Gateway IP
Add
Remove
View
Static Routing Table
Back
Next

Telnet Timeout Setting

Selecting **Telnet Timeout Setting** in the "Advanced Settings" screen generates the "Telnet Timeout Setting" screen. In this screen, select the amount of idle time before a telnet session is automatically terminated by activating the appropriate radio button.

Status

After configuring the Modem, settings can be viewed by selecting **Status** in the Main Menu. The "Current Status" screen appears, displaying many of the Modem's settings. No settings (other than connecting or disconnecting from the Internet) can be changed from the Current Status screen.

Firmware Version

Displays the firmware version the Modem is currently running.

MAC Address

Displays the MAC (Media Access Control) address of the Modem.

WAN - Connection

Displays the state of the connection to the ISP service (Connected or Disconnected).

WAN - Mode

Displays the type of connection used to communicate with the ISP.

WAN - IP Address

Displays the IP Address the ISP assigned to the Modem.

WAN - Subnet Mask

Displays the Subnet Mask address the ISP assigned to the Modem.

WAN - Gateway

Displays the Gateway address (for the IP Address and Subnet Mask) the ISP assigned to the Modem.

WAN - DNS #1 & #2

Displays the Domain Name Server address(es) the ISP assigned to the Modem.

LAN - IP Address

Displays the Local Area Network's (LAN) IP address.

LAN - Net Mask

Displays the Subnet Mask address configured for the LAN IP address.

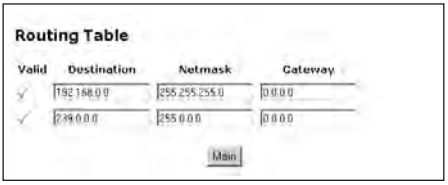
LAN - DHCP Server

Displays the state of the DHCP Server (On or Off).

In the left hand column of the General Status screen, there are other Status options available: **Routing Table**, **WAN Status**, **LAN Status**, **Active User List**, and **NAT Table**. Click to generate the option of choice.

Routing Table

Selecting **Routing Table** generates the "Routing Table" screen. This screen displays on overview of the Modem's routes.



WAN Status

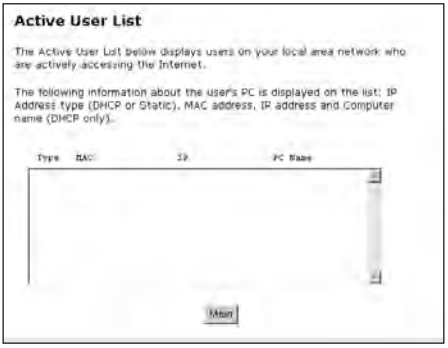
Selecting **WAN Status** generates the "WAN Status" screen. This screen displays on overview of the Modem's WAN (Wide Area Network) connection.

LAN Status

Selecting **LAN Status** generates the "LAN Status" screen. This screen displays on overview of the Modem's LAN (Local Area Network) connections.

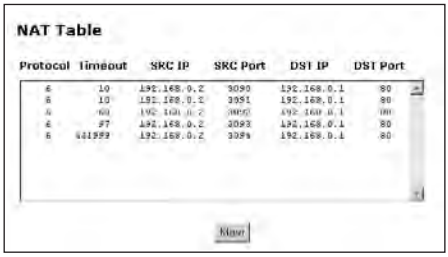
Active User List

Selecting **Active User List** generates the "Active User List" screen. This screen displays a list of the users currently connected to the Modem accessing the Internet with Network Address Translation (NAT) security activated.


Active User List
The Active User List below displays users on your local area network who are actively accessing the Internet.
The following information about the user's PC is displayed on the list: IP Address type (DHCP or Static), MAC address, IP address and Computer name (DHCP only).
Type
MAC
IP
PC Name
Main

NAT Table

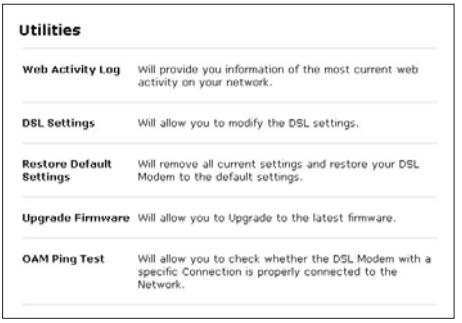
Selecting **NAT Table** generates the "NAT Table" screen. This screen displays details concerning the Modem's NAT (Network Address Translation) settings.



Using Utilities

7

To access the Modem's Web-based Utilities, select **Utilities** from the "Main Menu" screen. The "Utilities" screen appears.


Utilities
Web Activity Log
Will provide you information of the most current web activity on your network.
DSL Settings
Will allow you to modify the DSL settings.
Restore Default Settings
Will remove all current settings and restore your DSL Modem to the default settings.
Upgrade Firmware
Will allow you to Upgrade to the latest firmware.
OAM Ping Test
Will allow you to check whether the DSL Modem with a specific Connection is properly connected to the Network.

From this screen, the Web activity log can be viewed, the DSL settings changed, the Modem's factory default settings restored, and the Modem's firmware upgraded.

Web Activity Log

The Web Activity Log provides information about the Web sites each computer on the Modem's network has visited. To access the Web Activity Log, select **Web Activity Log** from the "Utilities" screen.

Auto Refresh

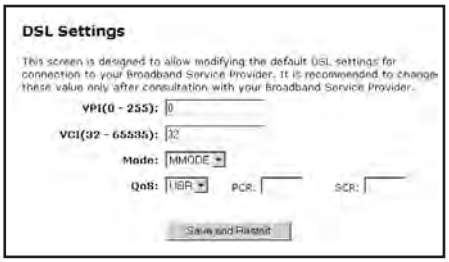
To set the Web Activity Log screen to automatically refresh at certain intervals, activate the circle next to "Auto Refresh Every" at the bottom of the Web Activity Log screen, then enter a time value (in seconds) in the text box, or click on the down arrow and select a time value from the menu that appears. The Web Activity Log will refresh at the chosen interval.

Manual Refresh

To set the Web Activity Log screen to manual refresh, activate the circle next to "Manual Refresh" at the bottom of the Web Activity Log screen. To refresh the Web Activity Log screen, click **Refresh**.

DSL Settings

To access DSL Settings, select **DSL Settings** from the "Utilities" screen. The Modem's VPI, VCI, Mode, and QoS (Quality of Service) settings can be changed from this screen. *Action*tec recommends not changing these values without first consulting the ISP.


DSL Settings
This screen is designed to allow modifying the default DSL settings for connection to your Broadband Service Provider. It is recommended to change these value only after consultation with your Broadband Service Provider.
VPI(0 - 255):
VCI(32 - 65535):
Mode:
QoS:
PCR:
SCR:

Restore Default Settings

To restore the Modem to its factory default settings, select **Restore Default Settings** from the "Utilities" screen. When the "Restore Default Settings" screen appears, click **Restore Default Settings**. Any changes made to the Modem's settings will be lost and the factory default settings restored. During this process, the Modem's Power light flashes and the Modem is disabled.

Warning: Do not unplug the Power cord from the Modem during the Restore Default Settings process. Doing so may result in permanent damage to the Modem.

When the Power Light stops flashing and glows steadily green, the Modem is fully operational.

Restore Default Settings
To restore DSL Modem to default settings click on the "Restore Default Settings" button below.
Restore Default Settings

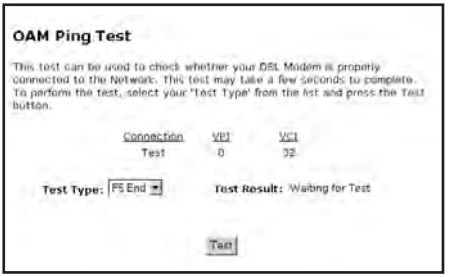
Upgrade Firmware

Selecting **Upgrade Firmware** in the "Utilities" screen generates the "Select Upgrade File" screen. *Action*tec periodically posts firmware upgrades to enhance the Modem's capabilities. Follow the instructions on-screen to upgrade the Modem's firmware.

Upgrade Firmware
The Upgrade file for upgrading firmware may be obtained here.
Step 1: Please download the Upgrade file and save it to your local hard disk.
Step 2: Use the 'Browse' button to select the Upgrade file.
Step 3: Click 'Upgrade' button to start the Upgrade process.
New Firmware Image:
Browse...
Upgrade
IMPORTANT! Please do not refresh or minimize the browser until a successful upgrade message appears.
The upgrade process may take 3-6 minutes.
Please read carefully through the following instructions to ensure a successful firmware upgrade:
1. Please do not RELOAD or CLOSE the browser during the upgrade process.
2. Do not DISCONNECT your network cable or power off the DSL Modem during the firmware upgrade process.
3. Do not run the firmware upgrade if you are connected to the DSL Modem via WIRELESS.
4. It is strongly recommended that you STOP any networking activities using the DSL Modem before starting the upgrade process.
5. If the firmware upgrade process fails, DO NOT reboot your DSL Modem. Please run the upgrade program again.

OAM Ping Test

Selecting **OAM Ping Test** in the "Utilities" screen generates the "OAM Ping Test" screen. Follow the instructions on-screen to check the Modem's network connection.


OAM Ping Test
This test can be used to check whether your DSL Modem is properly connected to the Network. This test may take a few seconds to complete. To perform the test, select your 'Test Type' from the list and press the Test button.
Connection
VPI
VCI
Test
0
32
Test Type:
F5 End
Test Result:
Waiting for Test
Test

Setting Up a Network 8

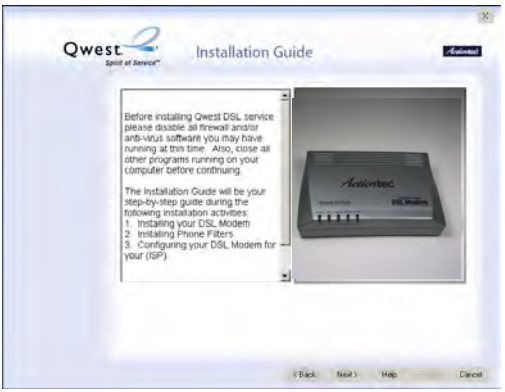
Other computers can be connected to the Modem to form a network. The network computers can be connected to the Modem in two ways: Ethernet or USB.

Ethernet

1. Insert the Installation CD in the CD-ROM drive of the computer. The Installation Guide will start automatically. Wait until the following screen appears, read the on-screen instructions, select **English**, then click **Next**.

Qwest
Installation Guide
Welcome to Qwest DSL.
To begin the installation of your Qwest DSL service select "English" below and click the NEXT button.
Bienvenido a Qwest DSL.
Para comenzar la instalación de su servicio de Qwest DSL seleccione abajo "Español" y luego haga clic al botón NEXT.
Select your language / Seleccion su idioma
English
Español

2. Read the instructions concerning firewall and anti-virus software, then click **Next**.


Qwest
Installation Guide
Before installing Qwest DSL service please disable all firewall and/or anti-virus software you may have running at this time. Also, close all other programs running on your computer before continuing.
The Installation Guide will be your step-by-step guide during the following installation activities:
1. Installing your DSL Modem
2. Installing Phone Filters
3. Configuring your DSL Modem for your (ISP)

3. Read the instructions, select **Adding Computers** by clicking on the appropriate radio button, then click **Next**.

Qwest
Installation Guide
If you have just received your DSL Modem and are installing it for the FIRST TIME, click the box next to "Initial Setup".
Or
If you are connecting an additional computer to the DSL Modem at this time, click the box next to "Adding Computers".
Once you have made your selection, click NEXT to continue.
Please select from the following options:
Initial Setup
Adding Computers

4. Select **Ethernet**, then click **Next**.

Qwest
Installation Guide
Based on the information that we have collected from your system, you may connect this DSL Modem to your Computer in the following way(s):
Ethernet Port
USB Port
Please select from the following options:
Ethernet (Recommended)
USB

5. Read the on-screen instructions, choose the appropriate ISP option (indicated in the Welcome Letter), then click **Next**.
If **MSN** or **Qwest.net** is selected, go to step **6**.
If **Other ISP** is selected, go to step 7.

Qwest
Installation Guide
Please get the Welcome Letter (ISP Worksheet) provided by your ISP or located in your DSL installation kit. This letter lists the name of your Service Provider that was selected upon ordering Qwest DSL.
If Qwest DSL® with MSN® Premium or Qwest DSL with Internet Basic or Internet Prime was listed on your Welcome Letter as the Service Provider, select the appropriate option from the list below. Otherwise, select the box next to "Qwest DSL with Other ISP".
My Service Provider is:
Qwest DSL® w/MSN® Premium
Qwest DSL w/Internet Basic/Prime
Qwest DSL w/Other ISP

6. Read the on-screen rental agreement, and if you accept it, click on the radio button next to "I Agree." Click **Next**.

Qwest
Installation Guide
QWEST NET LICENSE > <
QWEST SUBSCRIPTION AGREEMENT
"YOUR USE OF QWEST DSL WITH MSN PREMIUM IS SUBJECT TO YOUR ACCEPTANCE OF THE FOLLOWING SUBSCRIPTION AGREEMENT. IF YOU WISH TO USE THIS SERVICE, PLEASE REVIEW THE QWEST SUBSCRIPTION AGREEMENT BELOW AND CLICK "I AGREE" TO SHOW YOUR CONSENT TO ITS TERMS."
1. Agreement. This Qwest Subscription Agreement ("Agreement") is made between you and Qwest Interprise America, Inc. ("Qwest") and governs your use of Qwest's Internet access service ("Services"). If you are a subscriber to Qwest DSL with MSN premium and not Qwest.net, Sections 5 and 7 do not apply to you; provided that you agree to the terms of MSN's subscription agreement. By establishing an account or using the Services, you agree to be bound by this Agreement and to use the Services in compliance with this Agreement and the Qwest Acceptable Use Policy ("AUP") posted at http://www.qwest.com/legal/, and
I Agree
I do not Agree

7. When the next window appears, get the **yellow Ethernet cable** from the Quick Start Kit, then click **Next**.

Qwest
Installation Guide
STEP 1
Get the Yellow Cable from the Actiontec Quick Start kit.
Check the back of the DSL Modem to ensure the yellow Ethernet port is not currently in use. If the yellow Ethernet port is in use please contact Actiontec technical support at 1-888-436-0657 for further assistance on setting up an additional PC.
Otherwise, click NEXT to continue.
Yellow Cable
Yellow Port
< Back
Next >
Help
Cancel

8. Plug one end of the **yellow Ethernet cable** into the **yellow port** on the back of the Modem, then click **Next**.

9. Plug the other end of the **yellow Ethernet cable** into an **Ethernet port** on the back of the computer, then click **Next**.

Qwest Choice DSL
msn Premium
Installation Guide
STEP 3
Plug the loose end of the Yellow Cable into the Ethernet Port located on the back of your computer.
NOTE: The Ethernet Port looks similar to a regular Phone Jack but is slightly larger.
Click NEXT to continue.
Ethernet Port
Computer
Your computer may look slightly different
< Back
Next >
Help
Cancel

☞ ***Note***: An Ethernet port looks similar to a phone port, but is slightly bigger.

10. Make sure one of the **Ethernet Network Lights** glow steadily green, then click **Next**.

Qwest
Spirit of Service
Installation Guide
STEP 4
Confirm that the Power, DSL, Internet, Ethernet, and USB lights on the DSL Modem are GREEN. This may take a few moments.
NOTE: If the Ethernet Network light is NOT green, check that your Yellow Cable is properly connected.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

11. In the next window, the Installation Guide checks the configuration of the Modem.

Qwest
Installation Guide
Your Gateway is now being configured.
Please wait.
This process may take 3 to 5 minutes.
Current Task : The Modem is not ready...Trying again...

12. A congratulations window appears. Read the on-screen information, then click **Next**.

Qwest
Installation Guide
Congratulations!
You have successfully set up your Qwest DSL service. You will begin installing your MSN Premium software momentarily. The following screens will provide additional information about the features of your Qwest DSL provided DSL Modem and service.
Did you know you can connect additional PC's to your Qwest DSL with MSN Premium service utilizing this disk?
Just re-run the Installation Guide.
Click NEXT to continue.
Next >
Help
Cancel

13. A series of additional screens appear. Read the information contained in them, and click **Next** in each. When the screen below appears, the Installation Guide has finished, and the Modem has been connected and configured. Click **Finish**.

Qwest
Installation Guide
Congratulations! You have completed the installation of your Qwest DSL Service.
Once you select FINISH you will be taken to the Actiontec GT701-WG support page. Please bookmark the Actiontec GT701-WG support page for future reference.
Click FINISH to exit.
Qwest
Spirit of Service
Help
Finish

The computer is connected to the Modem via Ethernet.

USB

1. Insert the Installation CD in the CD-ROM drive of the computer. The Installation Guide will start automatically. Wait until the following screen appears, read the on-screen instructions, select **English**, then click **Next**.

Qwest
Installation Guide
Welcome to Qwest DSL.
To begin the installation of your Qwest DSL service select "English" below and click the NEXT button.
Bienvenido a Qwest DSL.
Para comenzar la instalación de su servicio de Qwest DSL seleccione abajo "Español" y luego haga clic al botón NEXT.
Select your language / Seleccion su idioma
English
Español
Actiontec
DSL Modem
Next >
Help
Cancel

2. Read the instructions concerning firewall and anti-virus software, then click **Next**.

Qwest
Installation Guide
Before installing Qwest DSL service please disable all firewall and/or anti-virus software you may have running at this time. Also, close all other programs running on your computer before continuing.
The Installation Guide will be your step-by-step guide during the following installation activities:
1. Installing your DSL Modem
2. Installing Phone Filters
3. Configuring your DSL Modem for your (ISP)
Actiontec
DSL Modem
< Back
Next >
Help
Cancel

3. Read the instructions, select **Adding Computers** by clicking on the appropriate radio button, then click **Next**.

Qwest
Installation Guide
If you have just received your DSL Modem and are installing it for the FIRST TIME, click the box next to "Initial Setup".
Or
If you are connecting an additional computer to the DSL Modem at this time, click the box next to "Adding Computers".
Once you have made your selection, click NEXT to continue.
Actiontec
DSL Modem
Please select from the following options:
Initial Setup
Adding Computers
< Back
Next >
Help
Cancel

4. Select **USB**, then click **Next**.

5. Read the on-screen instructions, choose the appropriate ISP option (indicated in the Welcome Letter), then click **Next**.
If **MSN** or **Qwest.net** is selected, go to step 6.
If **Other ISP** is selected, go to step 7.

Qwest
Installation Guide
Please get the Welcome Letter (ISP Worksheet) provided by your ISP or located in your DSL installation kit. This letter lists the name of your Service Provider that was selected upon ordering Qwest DSL.
If Qwest DSL® with MSN® Premium or Qwest DSL with Internet Basic or Internet Prime was listed on your Welcome Letter as the Service Provider, select the appropriate option from the list below. Otherwise, select the box next to "Qwest DSL with Other ISP".
My Service Provider is:
Qwest DSL® w/MSN® Premium
Qwest DSL w/Internet Basic/Prime
Qwest DSL w/Other ISP
Back
Next
Help
Cancel

6. Read the on-screen rental agreement, and if you accept it, click on the radio button next to "I Agree." Click **Next**.

Qwest
Installation Guide
QWEST NET LICENSE >_<
QWEST SUBSCRIPTION AGREEMENT
"YOUR USE OF QWEST DSL WITH MSN PREMIUM IS SUBJECT TO YOUR ACCEPTANCE OF THE FOLLOWING SUBSCRIPTION AGREEMENT. IF YOU WISH TO USE THIS SERVICE, PLEASE REVIEW THE QWEST SUBSCRIPTION AGREEMENT BELOW AND CLICK "I AGREE" TO SHOW YOUR CONSENT TO ITS TERMS."
1. Agreement. This Qwest Subscription Agreement ("Agreement") is made between you and Qwest Interprise America, Inc. ("Qwest") and governs your use of Qwest's Internet access service ("Services"). If you are a subscriber to Qwest DSL with MSN premium and not Qwest.net, Sections 5 and 7 do not apply to you; provided that you agree to the terms of MSN's subscription agreement. By establishing an account or using the Services, you agree to be bound by this Agreement and to use the Services in compliance with this Agreement and the Qwest Acceptable Use Policy ("AUP") posted at http://www.qwest.com/legal/, and
I Agree
I do not Agree

7. When the next window appears, get the **purple USB cable** from the Quick Start Kit, then click **Next**.

Qwest
Installation Guide
STEP 1
Get the Purple Cable from the Actiontec Quick Start kit.
Check the back of the DSL Modem to ensure the Purple USB port is not currently in use. If the Purple USB port is in use please contact Actiontec technical support at 1-888-436-0657 for further assistance on setting up an additional PC.
Otherwise, click NEXT to continue.
Purple Cable
USB Port

8. Plug the large, square end of the **purple USB cable** into the **purple USB port** on the back of the Modem, then click **Next**.

Qwest
Spirit of Service
Installation Guide
STEP 2
Connect the square end of the Purple Cable into the Purple Port on the back of your DSL Modem.
NOTE: If the Purple Port was not available, please hit the BACK button and select another method to connect to this DSL Modem.
Click NEXT to continue.
Purple Port
Purple Cable
Purple Cable
< Back
Next >
Help
Cancel

9. Plug the flat, rectangular end of the **purple USB cable** into a **USB port** on the front or back of the computer, then click **Next**.

Qwest
Spirit of Service
Installation Guide
STEP 3
Plug the thin, rectangular end of the Purple Cable into the USB Port located on the back of your computer. You will see several screens come and go. Once they have stopped, click NEXT to continue.
NOTE: The USB Port is shaped like a thin rectangle about 1/2 inch by 1/4 inch and may be horizontal or vertical.
Computer
USB Port
Purple Cable
Computer
Your Computer may look slightly different
< Back
Next >
Help
Cancel

10. Make sure the **USB light** glow steadily green, then click **Next**.

Qwest
Installation Guide
STEP 4
Confirm that the Power, DSL, Internet, Ethernet and USB lights are GREEN.
NOTE: If the USB Network light is NOT green, check that your Purple USB Cable is properly connected.
Click NEXT to continue.
Model# GT701
< Back
Next >
Help
Cancel

11. In the next window, the Installation Guide checks the configuration of the Modem.

Qwest
Installation Guide
Your Gateway is now being configured.
Please wait.
This process may take 3 to 5 minutes.
Current Task : The Modem is not ready...Trying again...

12. A congratulations window appears. Read the on-screen information, then click **Next**.

Qwest
Installation Guide
Congratulations!
You have successfully set up your Qwest DSL service. You will begin installing your MSN Premium software momentarily. The following screens will provide additional information about the features of your Qwest DSL provided DSL Modem and service.
Did you know you can connect additional PC's to your Qwest DSL with MSN Premium service utilizing this disk?
Just re-run the Installation Guide.
Click NEXT to continue.
Next >
Help
Cancel

13. A series of additional screens appear. Read the information contained in them, and click **Next** in each. When the screen below appears, the Installation Guide has finished, and the Modem has been connected and configured. Click **Finish**.

Qwest
Installation Guide
Congratulations! You have completed the installation of your Qwest DSL Service.
Once you select FINISH you will be taken to the Actiontec GT701-WG support page. Please bookmark the Actiontec GT701-WG support page for future reference.
Click FINISH to exit.
Qwest
Spirit of Service
Help
Finish

The computer is connected to the Modem via USB.

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Troubleshooting 9

This chapter contains a list of problems that may be encountered while using the Modem, and techniques to try and overcome the problem. Note that these techniques may not solve the problem.

LAN Connection Failure

- Ensure the Modem is properly installed, the LAN connections are correct, and the power is on.
- Confirm the computer and Modem are on the same network segment. If unsure, let the computer get the IP address automatically by initiating the DHCP function (see "DHCP Server"), then verify the computer is using an IP address within the default range (192.168.1.2 through 198.168.1.254). If the computer is not using an IP address within the range, it will not connect to the Modem.
- Ensure the Subnet Mask address is set to 255.255.255.0 by clicking **Status** in the "Main Menu" screen.

Cannot Connect to the Internet

- Ensure both ends of the power cord and all network cables are properly connected.
- Ensure the Subnet Mask address is set to 255.255.255.0 by clicking **Status** in the "Main Menu" screen.
- Verify the Modem's settings are the same as the computer by clicking **Status** in the "Main Menu" screen.
- If running Windows 98 SE or Me, check the computer's TCP/IP settings. Select **Start**, **Run**, enter

  `winipcfg`

  in the "Open" text box, then press **OK**. The "IP Configuration" window appears. Ensure the text box at the top of the window contains the name of the Ethernet adapter installed in the computer. If not, click on the down arrow next to the text box. When the list appears, click on the proper Ethernet adapter.
  In the fields below, the Ethernet adapter's various addresses appear.

There should be an entry for IP address, Subnet Mask, and Default Gateway. Additionally, the "IP Address" entry should be on the 192.168.0.X network (with "x" defining a range from 2 though 255).
If the Ethernet adapter is showing an incorrect IP address, click **Release**, which sets all values back to 0 (zero). Then, click **Renew** (this process may take a few seconds). The renewed IP address should be on the 192.168.0.X network.
If an error occurs, or the IP address renews with an address outside the 192.168.0.X network, contact the ISP immediately

- If running Windows 98 SE or Me, check the computer's TCP/IP settings. Select **Start**, **Run**, enter

  CMD

  in the "Open" text box, then press **OK**. A "DOS" window appears, with a blinking cursor (prompt). Enter

  ipconfig

  at the prompt, then press **Enter** on the keyboard.
  The IP address of the Ethernet adapter should appear in the DOS window. Ensure the IP address in the 192.168.0.X network (with "x" defining a range from 2 though 255).
  If the Ethernet adapter is showing an incorrect IP address, enter

  ipconfig /release

  at the prompt, then press **Enter** on the keyboard, which sets all values back to 0 (zero). Next, enter

  ipconfig /renew

  at the prompt, then press **Enter** on the keyboard (this process may take a few seconds). The renewed IP address should be on the 192.168.0.X network.
  If an error occurs, or the IP address renews with an address outside the 192.168.0.X network, contact the ISP immediately

- Ensure the browser is not set to "Never dial a connection" and there are no previous LAN settings.
  To check this, go to **Start**, **Settings**, **Control Panel**. In the Control Panel, double-click **Internet Options**. When the "Internet Properties" window appears, ensure that the "Never dial a connection" option is not activated, then click **LAN Settings**. When the "Local Area Network (LAN) Settings" window appears, ensure that no settings are activated. If there are settings activated, deactivate them.

- Shutdown and restart the computer. After the computer restarts, unplug the power cord from the Modem and plug it back in. When the lights glow solid green, try accessing the Internet.

Time out error occurs when entering a URL or IP Address

- Verify all the computers are working properly.
- Ensure the IP settings are correct.
- Ensure the Modem is on and connected properly.
- Verify the Modem's settings are the same as the computer by clicking **Status** in the "Main Menu" screen.
- Check the cable/DSL modem by attempting to connect to the Internet.

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Reference

A

This appendix contains information about various topics, including accessing information about your Windows computer.

Locating Computer Information

The following procedure is valid for Windows 98 SE, Me, NT 4.0, 2000 and XP.

1. From the desktop, right-click on **My Computer**.
2. Select **Properties** from the menu that appears.
3. When the "System Properties" window appears, select **General**.
   The version of the operating system, processor type, and amount of RAM installed in the computer are listed here.
4. Close the System Properties window.
5. From the desktop, double-click on **My Computer**.
6. Right-click the icon representing your hard disk. For example: Local Disk (C:).
   Some computers have multiple hard disks.
7. From the menu that appears, select **Properties**.
8. When the window appears, select **General**.
9. The Free space value is the available space on the hard disk.
10. Close all windows.

Locating Windows Operating System Files

If the operating system files reside on the hard drive of the computer, follow the instructions below to locate them. If the files are not on the hard drive, they must be loaded from the installation disks.

Windows 98 SE

1. From the desktop, click **Start**.
2. When the menu appears, select **Find,** then **Files or Folders**.
3. When the "Find: All Files" window appears, select **Name & Location**.
4. In the "Named" text box, enter:
   `*.cab`
5. Click the **down arrow** next to the "Look In" text box and select **My Computer** from the list that appears.
6. Click **Find Now**.
7. When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINDOWS \SYSTEM.
8. The Windows operating system files are located in this directory. Write down the directory path for future reference.
9. Close the Find: All Files window.

Windows Me, 2000

1. From the desktop, click **Start**.
2. Select **Search**, then **For Files and Folders**.

3a. Windows Me: The "Search Results" window appears. In the "Search for files or folders named" text box, enter:
`*.cab`

3b. Windows 2000: The "Search Results" window appears. In the "Search for files or folders named" text box, enter:
`i386`

4. Click the **down arrow** next to the "Look in" text box and select **My Computer** from the list that appears.

5. Click **Search Now**.

6a. **Windows Me**: When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINDOWS \OPTIONS\INSTALL.

6b. **Windows 2000**: When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINNT \Driver Cache.

7. The Windows operating system files are located in this directory. Write down the directory path for future reference.

8. Close the Search Results window.

Windows NT 4.0

1. From the desktop, click **Start**.

2. When the menu appears, select **Find,** then **Files or Folders**.

3. When the "Find: All Files" window appears, select **Name & Location**.

4. In the "Named" text box, enter:

```
i386
```

5. Click the **down arrow** next to the "Look In" text box and select **My Computer** from the list that appears.

6. Click **Find Now**.

7. When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\.

8. The Windows operating system files are located in this directory. Write down the directory path (followed by "i386") for future reference.

9. Close the Find: All Files window.

Windows XP

1. From the desktop, click **Start**.
2. Select **Search**, then **For Files and Folders**.
3. The "Search Results" window appears. In the panel at left titled "What do you want to search for?", click **All files and folders**.
4. Another panel, titled "Search by any or all of the criteria below" appears. In the "Look in" text box, click the **down arrow** and select **My Computer** from the menu that appears.
5. In the "All or part of the file name" text box, enter:
   ```
   i386
   ```
6. Click **Search**.
7. When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINDOWS \Driver Cache\.
8. The Windows operating system files are located in this directory. Write down the directory path (followed by "\i386") for future reference.
9. Close the Search Results window.

Static IP Address on the Computer

B

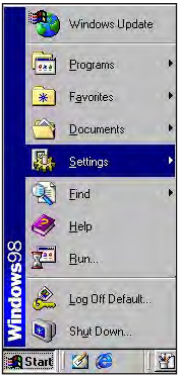
To communicate with the Modem from a computer on the network (to use the Web Configuration Utility, for example), the user may have to switch the IP address settings from DHCP-enabled to static IP, so that the computer and the Modem are on the same subnet.

To set up static IP on a computer, select the operating system and follow the instructions.

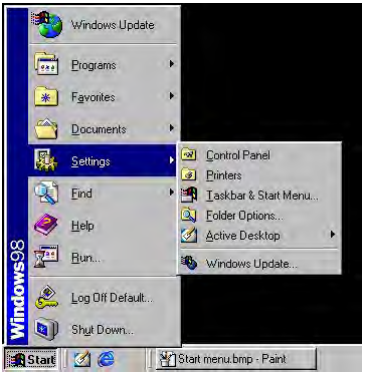
☞ ***Note***: The following procedures are based on the Modem's factory default IP address. If the Modem's IP address has been changed, enter the new IP address when instructed to enter an IP address.

Windows 98 SE

1. From the desktop, click on the **Start** button in the lower left corner.
2. From the menu that appears, select **Settings**.

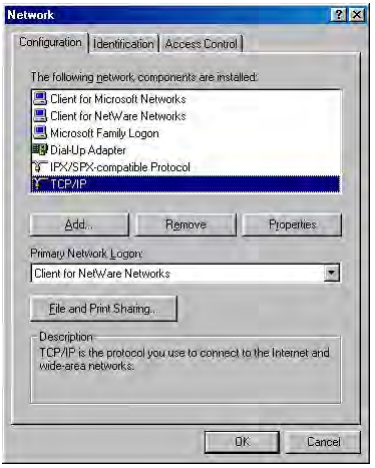


3. Another menu appears. Select **Control Panel**.

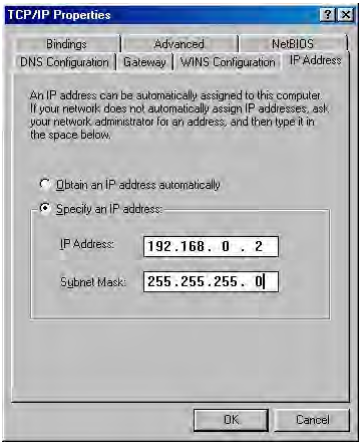


4. When the "Control Panel" window appears, double-click **Network**.

5. The "Network" window appears. In the "The following network components are installed" list box, locate and double-click **TCP/IP**.



6. The "TCP/IP Properties" window appears. Select **IP Address**.



7. In the IP Address tab, make sure the circle next to "Specify an IP Address" is selected. When active, a black dot appears in the circle. If the circle already contains a black dot, leave it alone.

8. Enter the following numbers in the "IP Address" text box:

`192.168.0.2`

Press the space bar on the keyboard to add the periods between the numbers.

9. Enter the following numbers in the "Subnet mask" text box:

`255.255.255.0`

Press the space bar on the keyboard to add the periods between the numbers.

10. Click **OK**. The TCP/IP Properties window disappears.

11. In the Network window, click **OK**. The Network window disappears.

12. The "System Settings Change" window appears, asking whether the computer should be restarted. Click **Yes**.

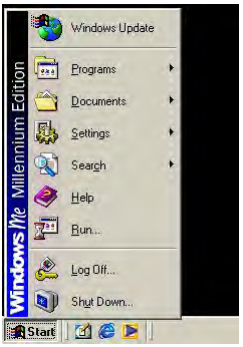
System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

The computer restarts. It is now set up with a static IP address, allowing the user to access the Modem's Advanced Setup utility.

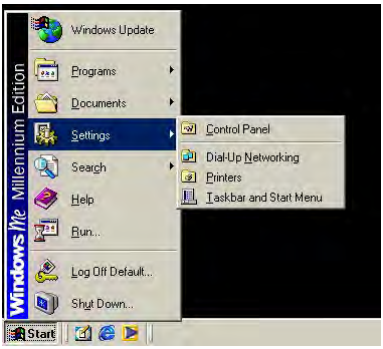
Windows Me

1. From the desktop, click on the **Start** button in the lower left corner.

2. From the menu that appears, select **Settings**.

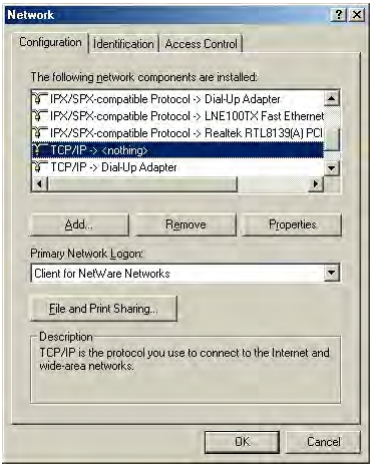


3. Another menu appears. Select **Control Panel**.

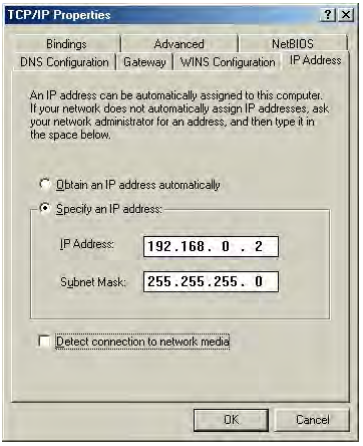


4. When the "Control Panel" window appears, double-click **Network**.

5. The "Network" window appears. In the "The following network components are installed" list box, locate and double-click **TCP/IP**.



6. The "TCP/IP Properties" window appears. Click **IP Address**.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
192.168. 0 . 2
Subnet Mask:
255.255.255. 0
Detect connection to network media
OK
Cancel

7. In the IP Address tab, make sure the circle next to "Specify an IP Address" is selected. When active, a black dot appears in the circle. If the circle already contains a black dot, leave it alone.

8. Enter the following numbers in the "IP Address" text box:

`192.168.0.2`

Do not include the periods; they are automatically entered.

9. Enter the following numbers in the "Subnet mask" text box:

`255.255.255.0`

Do not include the periods; they are automatically entered.

10. Click **OK**. The TCP/IP Properties window disappears.

11. If there is a check in the box next to "Detect connection to network media," click on it to uncheck the box.

12. In the Network window, click **OK**. The Network window disappears.

13. The "System Settings Change" window appears, asking whether the computer should be restarted. Click **Yes**.

System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

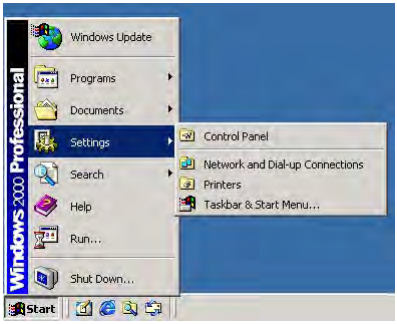
The computer restarts. It is now set up with a static IP address, allowing the user to access the Modem's Advanced Setup utility.

Windows 2000

1. From the desktop, click on the **Start** button in the lower left corner.

2. From the menu that appears, select **Settings**.

3. Another menu appears. Select **Control Panel**.

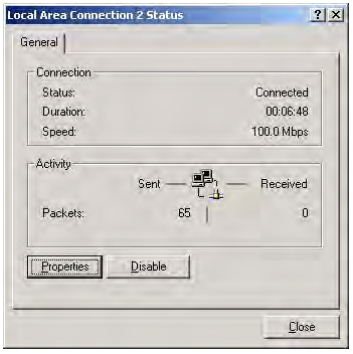


4. When the "Control Panel" window appears, double-click **Network and Dial-up Connections**.

5. In the "Network and Dial-up Connections" window, double-click **Local Area Connection**. A number may be displayed after the Local Area Connection. If there is more than one Local Area Connection listed, locate the one that corresponds to the network card installed in the computer by finding the name of the network card in the **Device Name** column.

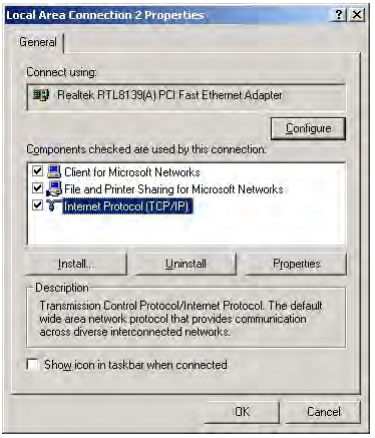
Network and Dial-up Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders History
Address Network and Dial-up Connections
Go
Name Type Status Device Name
Make New Connection
Local Area Connection 2 LAN Enabled Realtek RTL8139(A) PCI ...
2 object(s)

6. The "Local Area Connection Status" window appears. Select **General**, then click **Properties**.

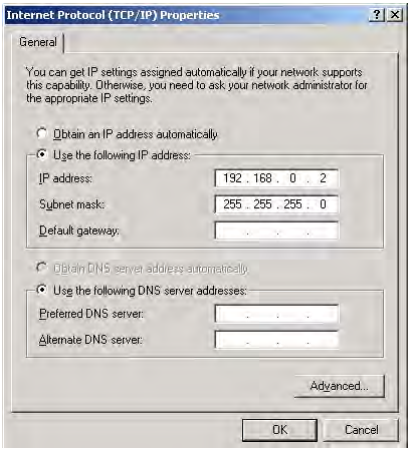


7. The "Local Area Connection Properties" window appears. Click **General**.

8. In the "Components checked are used by this connection" list box, double-click **Internet Protocol (TCP/IP)**.



9. The "Internet Protocol (TCP/IP) Properties" window appears.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 2
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

10. In the **General** tab, make sure the circle next to "Obtain an IP Address automatically" is selected. When active, a black dot appears in the circle. If the circle already contains a black dot, leave it alone.

11. Enter the following numbers in the "IP Address" text box:

`192.168.0.2`

Press the space bar on the keyboard to add the periods between the numbers.

12. Enter the following numbers in the "Subnet mask" text box:

`255.255.255.0`

Press the space bar on the keyboard to add the periods between the numbers.

13. Click **OK**. The "Internet Protocol (TCP/IP) Properties" window disappears.

14 In the "Local Area Connection Properties" window, click **OK**. The Local Area Connection Properties window disappears.

15. Click **Close** in the Local Area Connection Status window. The window disappears.

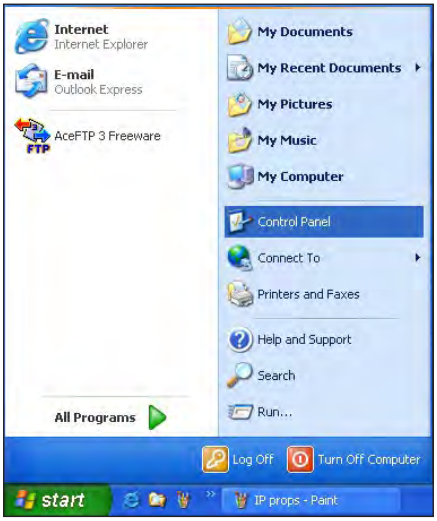
16. Close the Network and Dial-up Connections window by clicking on the "**x**" button at the upper right corner of the window.

The computer is now set up with a static IP address, allowing the user to access the Modem's Advanced Setup utility.

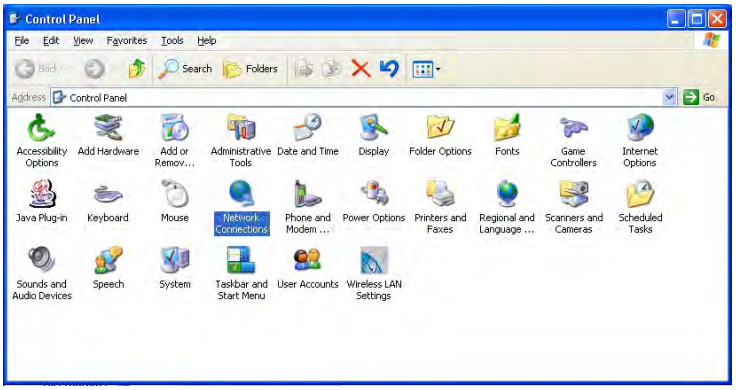
Windows XP

1. From the desktop, click **Start** button in the lower left corner.

2. From the menu that appears, select **Control Panel**.



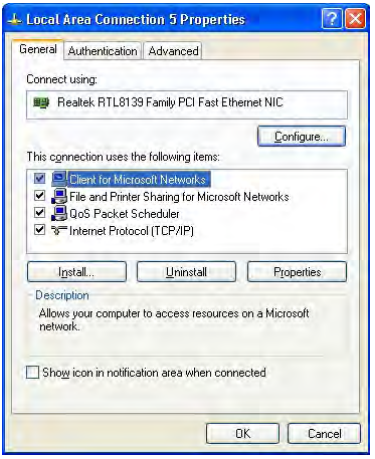
3. When the "Control Panel" window appears, double-click **Network Connections**.



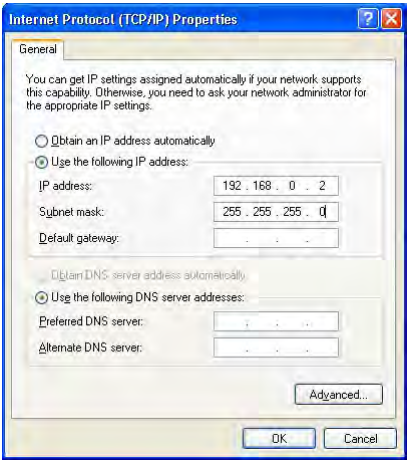
4. In the "Network Connections" window, double-click **Local Area Connection**. A number may be displayed after the Local Area Connection. If more than one Local Area Connection is listed, locate the one that corresponds to the network card installed in your computer by finding the name of the network card in the "Device Name" column.

5. The "Local Area Connection Properties" window appears. Select **General**.

6. In the "This connection uses the following items" list box, double-click **Internet Protocol (TCP/IP)**.



7. The "Internet Protocol (TCP/IP) Properties" window appears.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 2
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

8. In the **General** tab, make sure the circle next to "Use the following IP Address" is selected. When active, a black dot appears in the circle. If the circle already contains a black dot, leave it alone.

9. Enter the following address in the "IP Address" text box:
   `192.168.0.2`
   Enter the periods in the address by pressing the space bar on the keyboard.

10. Enter the following address in the "Subnet mask" text box:
    `255.255.255.0`
    Enter the periods in the address by pressing the space bar on the keyboard.

11. Click **OK**. The Internet Protocol (TCP/IP) Properties window disappears.

12 In the Local Area Connection Properties window, click **Close**. The Local Area Connection Properties window disappears.

13. Click **Close** in the Local Area Connection Status window. The window disappears.

14. Close the Network and Dial-up Connections window by clicking on the "**x**" button at the upper right corner of the window.

The computer is now set up with a static IP address, allowing the user to access the Gateway's Web Configuration Utilities (Advanced Setup, Utilities, etc.).

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Computer Security

The Internet is a giant network of computers located all over the world. When a computer is connected to the Internet, it can exchange information with any other computer on the Internet. This allows a computer user to send E-mail, surf the World Wide Web, download files, and buy products and services online, but it also makes the computer vulnerable to attack from persons intent on doing malicious mischief, or worse. Unless access to the computer is controlled, someone on the Internet can access the information on the computer and damage or destroy that information.

*Action*tec recommends securing your computer from unwanted intrusion. Security is ultimately the end user's responsibility. Please secure your computer, and don't be a victim.

Comparing DSL Service with a Dial-Up Modem

With a dial-up modem, a computer user makes an Internet connection by dialing a telephone number, surfs the Internet for a period of time, and then disconnects the dial-up modem. No one on the Internet can access a computer that is not connected to the Internet.

Unlike a dial-up modem, DSL service is "always connected." The connection is always available – there is no need to dial a phone number to access the Internet. The computer can be connected to the Internet all the time.

With both types of Internet connections, access to the computer must be controlled to make sure someone on the Internet doesn't access the information on the computer. The longer the computer is connected to the Internet, the easier it is for someone on the Internet to find the computer and attempt to access it without permission. DSL service also provides fast Internet connections. This not only improves Internet performance, it also improves Internet performance for anyone attempting to access the computer.

Modem Security

If connecting to the ISP through Point-to-Point Protocol (PPP), be sure to provide the Modem an administrative password. If a password is not set, someone on the Internet can access the Modem and change its configuration or steal your PPP login name and password. For instructions on setting the password, see the "Advanced Setup chapter.

If connecting to the ISP through bridging mode, the Modem should be safe from unwarranted and illegal intrusion.

Computer Security

To protect the valuable information on the computer, review the following topics. These topics cover software programs and operating system features affecting the security of the computer's data.

Anti-Virus Programs

The computer should have an anti-virus program, and the virus definitions should be updated on a regular basis – at least once a month.

E-mail Attachments

Never run a program received as an attachment to an E-mail message unless the program is known to be safe. A program from an unknown source can delete all the files on the computer's hard disk or install a "backdoor" software application that lets people on the Internet gain access to the computer without permission.

Internet Browsers

Always exit the Internet browser (Internet Explorer or Netscape Navigator, for example). Never "minimize" the browser or leave it open in the background. Breaking into a computer is easier when an Internet browser is running.

Network Applications

Network applications (such as software programs) that allow remote access to the computer also make the computer vulnerable to access from other people on the Internet. If using a network application that allows remote access, consider installing a firewall.

Electronic Security

Here are two methods to secure your computer electronically.

Network Address Translation

If a local area network and a PPP connection to the ISP using dynamic IP addresses through a DHCP server are being used, Network Address Translation (NAT) is being used. NAT provides a very basic level of security.

Firewalls

The safest way to prevent attacks on the computer is through a firewall – a hardware device or software program that protects the computer from unauthorized access by controlling who can access your computer and by monitoring the transmissions between the computer and the Internet

Windows XP has a built-in firewall. For more information, select **Help and Support Center** from the Help menu. Search for **Internet Connection Firewall**.

If Windows 98 SE, Me, NT 4.0, or 2000 is running on the computer, consider installing a firewall. Hardware and software firewall products are changing rapidly as more homes and businesses establish high-speed digital connections between their local area networks and the Internet.

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Specifications

D

General

Model Number

GT701Q (54 Mbps DSL Modem)

Standards

IEEE 802.3 (10BaseT)
IEEE 802.3u (100BaseTX)
G.dmt
G.lite
t1.413
RFC 1483, 2364, 2516

Protocol

LAN - CSMA/CD
WAN - PPP, DHCP, Static IP

WAN

Full-rate ADSL Interface

LAN

10/100 RJ-45 switched port
USB port

Speed

LAN Ethernet: 10/100Mbps auto-sensing

Cabling Type

Ethernet 10BaseT: UTP/STP Category 3 or 5
Ethernet100BaseTX: UTP/STP Category 5
USB

LED Indicators

Power, DSL, Internet, Ethernet, USB

Environmental

Power

External, 12V DC, 600mA

Certifications

FCC Class B, FCC Class C (part 15, 68), CE Mark Commercial, UL

Operating Temperature

0° C to 40° C (32°F to 104°F)

Storage Temperature

-20°C to 70°C (-4°F to 158°F)

Operating Humidity

10% to 85% non-condensing

Storage Humidity

5% to 90% non-condensing

Note: Specifications are subject to change without notice.

Glossary

E

Access Point

A device that allows wireless clients to connect to one another. An access point can also act as a bridge between wireless clients and a "wired" network, such as an Ethernet network. Wireless clients can be moved anywhere within the coverage area of the access point and remain connected to the network. If connected to an Ethernet network, the access point monitors Ethernet traffic and forwards appropriate Ethernet messages to the wireless network, while also monitoring wireless traffic and forwarding wireless client messages to the Ethernet network.

ATM (Asynchronous Transfer Mode)

A networking technology based on transferring data in fixed-size packets

Client

A desktop or mobile computer connected to a network.

DHCP (Dynamic Host Configuration Protocol)

A protocol designed to automatically assign an IP address to every computer on your network.

DNS (Domain Name System) Server Address

Allows Internet host computers to have a domain name and one or more IP addresses. A DNS server keeps a database of host computers and their respective domain names and IP addresses so that when a user enters a domain name into a Web browser, the user is sent to the proper IP address. The DNS server address used by computers on the home network corresponds to the location of the DNS server the ISP has assigned.

DSL (Digital Subscriber Line) Modem

A modem that uses existing phone lines to transmit data at high speeds.

Encryption

A method to allow wireless data transmissions a level of security.

ESSID (Extended Service Set Identifier)

A unique identifier for a wireless network. Also known as "SSID."

Ethernet Network

A standard wired networking configuration using cables and hubs.

Firewall

A method preventing users outside the network from accessing and/or damaging files or computers on the network.

Gateway

A central device that manages the data traffic of your network, as well as data traffic to and from the Internet.

IP (Internet Protocol) Address

A series of four numbers separated by periods identifying a unique Internet computer host.

ISP Gateway Address

An IP address for the Internet router. This address is only required when using a cable or DSL modem.

ISP (Internet Service Provider)

A business that allows individuals or businesses to connect to the Internet.

LAN (Local Area Network)

A group of computers and devices connected together in a relatively small area (such as a house or an office). A home network is considered a LAN.

MAC (Media Access Control) Address

The hardware address of a device connected to a network.

NAT (Network Address Translation)

A method allowing all of the computers on a home network to use one IP address, enabling access to the Internet from any computer on the home network without having to purchase more IP addresses from the ISP.

PC Card

An adapter that inserts in the PCMCIA slot of a computer, enabling the communication with a device.

PPPoE (Point-To-Point Protocol over Ethernet)/
PPPoA (Point-To-Point Protocol over ATM)

Methods of secure data transmission.

Router

A central device that manages the data traffic of your network.

Subnet Mask

A set of four numbers configured like an IP address used to create IP address numbers used only within a particular network.

SSID

See "ESSID."

TCP/IP (Transmission Control Protocol/Internet Protocol)

The standard protocol for data transmission over the Internet.

WAN (Wide Area Network)

A network that connects computers located in separate areas, (i.e., different buildings, cities, countries). The Internet is a WAN.

WECA (Wireless Ethernet Compatibility Alliance)

An industry group that certifies cross-vender interoperability and compatibility of IEEE 802.11b wireless networking products and promotes the standard for enterprise, small business, and home environments.

WLAN (Wireless Local Area Network)

A group of computers and other devices connected wirelessly in a small area.

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Firewall Security Level Services Table

F

The following information is related to the Firewall options (High, Medium, and Low) section in the "Advanced Setup" chapter of this manual (see page 74). The types of services and their respective ports are listed in the two right-hand columns: the "In" column details whether a particular service can be accessed by a user outside of the network; and the "Out" column details whether a computer on the Router's network can access a particular incoming service.

For example, in the "High Security Level" section below, the **http** service uses **port 80**. Since **no** is listed in the **In** column, a user outside the Router's network cannot access a computer on the network via the http service; in this case, no computers on the network can be used as a Web server (i.e., to host a Web site accessible to outside users). However, since **yes** is listed in the **Out** column, all computers on the Router's network can access the Internet via the http port.
If Basic Security is selected in the "Firewall" screen, firewall filtering is based on the basic NAT firewall.

High Security Level

Service	Port	In	Out
http	80	no	yes
dns	53	no	yes
ftp	21	no	no
telnet	23	no	no
smtp	25	yes	yes
pop3	110	yes	yes
nntp	119	no	no
real audio/video	7070	no	no
icmp	n/a	no	yes
H.323	1720	no	no
T.120	1503	no	no
SSH	22	no	no
imap	143	yes	yes
https	443	yes	yes
secure imap	993	yes	yes
secur pop3	9 9 5	yes	yes

Medium Security Level

Service	Port	In	Out
http	80	no	yes
dns	53	no	yes
ftp	21	no	yes
telnet	23	no	yes
smtp	25	yes	yes
pop3	110	yes	yes
nntp	119	no	yes
real audio/video	7070	yes	yes
icmp	n/a	no	yes
H.323	1720	no	yes
T.120	1503	yes	yes
SSH	22	no	yes
imap	143	yes	yes
https	443	yes	yes
secure imap	993	yes	yes
secure pop3	9 9 5	yes	yes

Low Security Level

Service	Port	In	Out
http	80	no	yes
dns	53	yes	yes
ftp	21	no	yes
telnet	23	no	yes
smtp	25	yes	yes
pop3	110	yes	yes
nntp	119	no	yes
real audio/video	7070	no	yes
icmp	n/a	yes	yes
H.323	1720	yes	yes
T.120	1503	yes	yes
SSH	22	yes	yes
imap	143	yes	yes
https	443	yes	yes
secure imap	993	yes	yes
secure pop3	9 9 5	yes	yes

Basic Security Level

NAT (**N**etwork **A**ddress **T**ranslation) only.

Service Acronym Definitions

http

Hyper**T**ext **T**ransfer **P**rotocol. This protocol delivers information over the Internet, and is used when a computer connects to a Web site via an Internet browser.

dns

Domain **N**ame **S**ystem. A data query system used to translate host names into Internet addresses (i.e., www.somewebsite.com translates to 888.999.000.111).

ftp

File **T**ransfer **P**rotocol. A protocol used to transfer files over the Internet.

telnet

An Internet communications protocol enabling one computer to function as a terminal working from another (remote) computer.

smtp

Simple **M**ail **T**ransfer **P**rotocol. A protocol used to transfer E-mail between computers over the Internet. Can be used to send and receive mail.

pop3

Post **O**ffice **P**rotocol 3. Another protocol used to transfer E-mail between computers. Usually employs a pop3 server, and is used to receive mail only.

nntp

Network **N**ews **T**ransfer **P**rotocol. A protocol used to distribute and retrieve news articles over the Internet.

real audio/video

A protocol used to transfer Real Audio or Real Video files.

icmp

Internet **C**ontrol **M**essage **P**rotocol. Allows error messages, text packages, and informational messages to be transferred over the Internet.

H.323

A standard protocol for sending audio and video over the Internet.

T.120

A standard protocol for multimedia teleconferencing over the Internet.

SSH

Secure **Sh**ell. A method for the secure transfer of files from another computer. Also enables remote capabilities (terminal, log in, etc.).

imap

Internet **M**essage **A**ccess **P**rotocol. A protocol for retrieving E-mail messages.

https

Hyper**T**ext **T**ransfer **P**rotocol using **S**ecure Socket Layer. A secure version of the protocol that delivers information over the Internet.

Non-Windows System Setup

G

The Modem supports both the Classic Macintosh operating systems (9.2.1 and below), as well as OS X.

☞ ***Note***: When installing any software, consult the user manual and help files supplied with the software for detailed information. *Action*tec provides the following information as a guideline only.

Classic

To configure the Modem, Open Transport 2.5.2 or above must be loaded on the computer.

1. Click **Apple, Control Panels**, then **TCP/IP**.

2. When the "TCP/IP" window appears, select **Edit** from menu bar, then select **User Mode**.

3. When the "User Mode" window appears, select **Advanced**, then click **OK**.

4. In the "TCP/IP" window, select **Ethernet** from the "Connect via" drop-down list.

5. Select **Using DHCP Server** from the "Configure" drop-down list.

6. Ensure the "Use 802.3" option is **not** checked.

7. Disregard any addresses in the IP Address text boxes. They will be reacquired when the first connection is made.

8. Click **Options** and when the "TCP/IP Options" window appears, select **Active**. Ensure the "Load only when needed" option is **not** checked, then click **OK**.

9. Close the "TCP/IP" window and when prompted to save changes, click **Save**.

10. Restart the computer. The TCP/IP settings are configured.

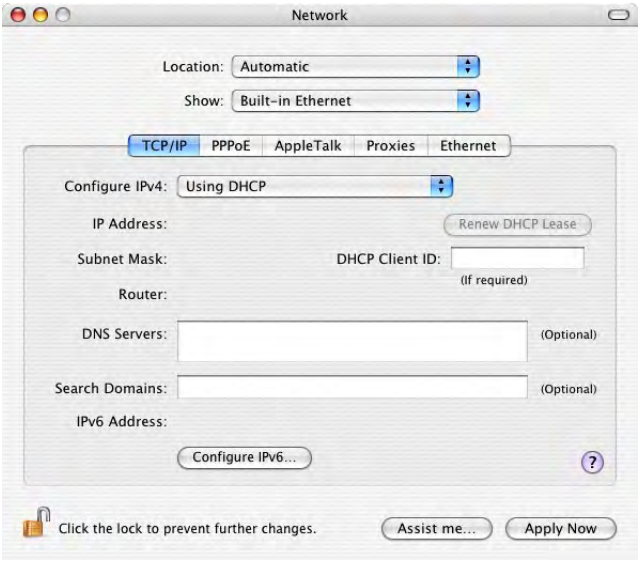
Next, go to "Connecting to the ISP" on page 144.

OS X

1. From the Apple Menu, select **System Preferences**.

2. When the "System Preferences" window appears, click **Network**.

3. The Network window appears. Select **Built-In Ethernet** from the "Show" drop-down list.



4. Select **TCP/IP** and, from the "Configure" drop-down list, select **Using DHCP**.

5. Click **Apply Now** and close the "System Preferences" application. The TCP/IP settings are configured.

Next, go to "Connecting to the ISP," below.

Connecting to the ISP

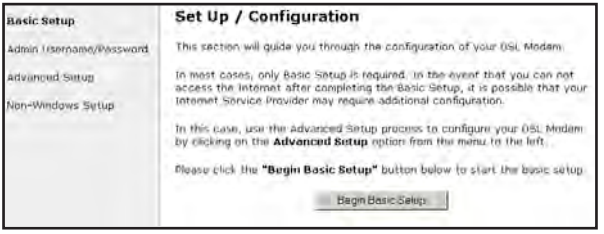
1. Open the Web browser. In the address bar, enter

   `http://192.168.0.1`

   then press **Enter** on the keyboard.

2. The "Main Menu" screen appears. Select **Setup/Configuration**.

3. In the "Set Up/Configuration" screen, select **Non-Windows Setup** from the menu on the left side.


Basic Setup
Admin Username/Password
Advanced Setup
Non-Windows Setup
Set Up / Configuration
This section will guide you through the configuration of your DSL Modem.
In most cases, only Basic Setup is required. In the event that you can not access the Internet after completing the Basic Setup, it is possible that your Internet Service Provider may require additional configuration.
In this case, use the Advanced Setup process to configure your DSL Modem by clicking on the Advanced Setup option from the menu to the left.
Please click the "Begin Basic Setup" button below to start the basic setup.
Begin Basic Setup

4. The "Actiontec DSL Modem Setup Page" screen appears. In this screen, the user can configure the ISP Protocol (Bridged, PPPoA, or PPPoE) and the IP configuration (Dynamic or Static). Using the Internet Service Provider (ISP) Worksheet provided by the ISP, enter the information in the appropriate text boxes.
If no worksheet has been provided, contact the ISP.

Actiontec DSL Modem Setup Page
The following will setup the router to work with your DSL provider.
The Actiontec DSL Modem setup page can be used to setup your DSL Modem for the following configurations.
1) RFC1483 Bridged with DHCP. Bridging session terminated in the 3.60.1.0.5.4-GT701-WG; via a DHCP address from the ISP. DHCP/NAT is used on the LAN side to run multiple LAN devices. (Same for RFC1483 Routed)
2) RFC1483 Bridged with Static IP. Bridging session terminated in the 3.60.1.0.5.4-GT701-WG; via a single Static IP address from the ISP. DHCP/NAT is used on the LAN side to run multiple LAN devices. (Same for RFC1483 Routed)
3) PPPoA with dynamic IP Addressing. (Same for PPPoE)
4) PPPoA with a Single Static IP Address. (Same for PPPoE)
The advanced configuration session must be used to set the DSL Modem for transparent bridging and PPPoA with a block of static IP addresses.
Please locate your Internet Service Provider(ISP) worksheet. The ISP worksheet is required to complete the following. The ISP worksheet is sent separately from your DSL fulfillment package directly from your ISP of choice. If you do not have an ISP worksheet, please contact your ISP directly.
ISP Protocol
Please select the protocol below listed on your ISP worksheet.
RFC1483 Bridged
RFC1483 Routed
PPPoA
ISP Username
ISP Password

5. Click **Save and Restart** at the bottom of the Actiontec DSL Modem Setup Page screen.

The Modem will be ready to use when the Power and Internet Lights stop blinking.

For other configuration options, see "Using Advanced Setup" on page 51.

Additional Technical Support Options

H

The appendix contains information about additional technical support options.

Self Help

To obtain more answers to DSL configuration questions on your own, visit the **Qwest DSL *Action*tec support page** at:

http://www.qwest.com/dsl/customerservice/actiontecgt701-wg.html

A Help page is also available on the main page of the *Action*tec Wireless DSL Modem Web interface. Enter `192.168.0.1` in the "Address" field of the Web browser, then click **Help**.

Basic Setup Support: Getting Online

If you are not able to access the Internet, check the DSL light on the front of the Modem. If it is solid green, call your ISP immediately. If it is not solid green, call Qwest's DSL Technical Support at 1-800-247-7285.

For other basic setup support:

Problem	Contact
DHCP Addressing Configuration	Your ISP
DSL Service Outage Support/Repair of the DSL Service	Qwest
Installation Support of the DSL Service	Qwest
Static IP Addressing Configuration	Your ISP
Transparent Bridging Configuration	Your ISP

☞ ***Note***: Before contacting technical support, make sure you can access the Internet via the Modem.

Advanced Feature Support

Qwest Technical Support (1-800-247-7285) provides configuration assistance support for the following advanced features:

- Website Blocking
- VPN Passthrough
- NAT (Network Address Translation)
- Firewall
- LAN IP Address
- Services Blocking
- DHCP
- Remote Management
- VIP

These features are supported with the Modem only. Implementing the above features within your network (LAN) is not supported by Qwest.

Wired and Wireless Upgrade Support

Wired and wireless upgrade installation support is available from *Action*tec free of charge if the wired or wireless equipment was purchased from *Action*tec. Contact *Action*tec at 1-888-436-0657 for installation and configuration support.

Networking (LAN) Support

If you have a network and require remote support for your wired or wireless network in one of the areas listed below, contact the ***Action*tec Pay For Support Center** at 1-888-825-9075. *Action*tec networking support is provided for $29.95 per incident and covers:

- LAN support of multiple computers and peripherals
- Microsoft Windows networking
- Microsoft ICS (Internet Connection Sharing)
- Advanced LAN configuration
- Non-*Action*tec network card/Ethernet cable installation, configuration, and troubleshooting
- Commercial firewall software configuration

This service also provides support (at $29.95 per incident) for the following advanced features:

- Port Forwarding (Static NAT)
- Static Routing
- MAC Address Cloning
- Third-party wireless equipment configuration
- DMZ Hosting
- NAT Routes
- RIP (Dynamic Routing)

This service does not include on-site field technician support.

To purchase *Action*tec wireless adapters and peripherals, go to:

www.actiontecstore.com/qwest

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Notices

Regulatory Compliance Notices

Class B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by implementing one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by A*ction*tec Electronics, Inc., may void the user's authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo – United States only.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference;

2. This device must accept any interference received, including interference that may cause unwanted operation.

☞ ***Note***: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

For questions regarding your product or the FCC declaration, contact:

*Action*tec Electronics, Inc.
760 North Mary Ave.
Sunnyvale, CA 94086
United States
Tel: (408) 752-7700
Fax: (408) 541-9005

Limited Warranty

Hardware: *Action*tec Electronics, Inc., warrants to the end user ("Customer") that this hardware product will be free from defects in workmanship and materials, under normal use and service, for twelve (12) months from the date of purchase from *Action*tec Electronics or its authorized reseller.

*Action*tec Electronics' sole obligation under this express warranty shall be, at *Action*tec's option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, *Action*tec Electronics may, in its sole discretion, refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of *Action*tec Electronics, Inc. Replacement products may be new or reconditioned. *Action*tec Electronics warrants any replaced or repaired product or part for ninety (90) days from shipment, or the remainder of the initial warranty period, whichever is longer.

Software: *Action*tec Electronics warrants to Customer that each software program licensed from it will perform in substantial conformance to its program specifications, for a period of ninety (90) days from the date of purchase from *Action*tec Electronics or its authorized reseller. *Action*tec Electronics warrants the media containing software against failure during the warranty period. The only updates that will be provided are at the sole discretion of *Action*tec Electronics and will only be available for download at the *Action*tec Web site, www.actiontec.com. *Action*tec Electronics' sole obligation under this express warranty shall be, at *Action*tec Electronics' option and expense, to refund the purchase price paid by Customer for any defective software product, or to replace any defective media with software which substantially conforms to applicable *Action*tec Electronics published specifications. Customer assumes responsibility for the selection of the appropriate applications program and associated reference materials. *Action*tec Electronics makes no warranty or representation that its software products will meet Customer's requirements or work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third-party products listed in the *Action*tec Electronics software product documentation or specifications as being compatible, *Action*tec Electronics will make reasonable efforts to provide compatibility, except where the non-compatibility is caused by a "bug" or defect in the third party's product or from use of the software product not in accordance with *Action*tec Electronics published specifications or user guide.

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THIS *ACTION*TEC ELECTRONICS WARRANTY DOES NOT APPLY TO SUCH THIRD-PARTY SOFTWARE. FOR THE APPLICABLE WARRANTY, PLEASE REFER TO THE END-USER LICENSE AGREEMENT GOVERNING THE USE OF SUCH SOFTWARE.

Obtaining Warranty Service: Customer may contact *Action*tec Electronics Technical Support Center within the applicable warranty period to obtain warranty service authorization. Dated proof of purchase from *Action*tec Electronics or its authorized reseller may be required. Products returned to *Action*tec Electronics must be pre-authorized by *Action*tec Electronics with a Return Merchandise Authorization (RMA) number marked on the outside of the package, and sent prepaid and packaged appropriately for safe shipment, and it is recommended that they be insured or sent by a method that provides for tracking of the package. The repaired or replaced item will be shipped to Customer, at *Action*tec Electronics' expense, not later than thirty (30) days after *Action*tec Electronics receives the defective product.

Return the product to:
(In the United States)
*Action*tec Electronics, Inc.
760 North Mary Avenue
Sunnyvale, CA 94085

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